SCIENTIFIC AMERICAN

Cumulative Index 1948-1978

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Index to the 362 issues from May, 1948, through June, 1978

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Preface

This Cumulative Index embraces, inclusively, all issues of Scientific American from May, 1948, (the first under the magazine's present editorial direction) through June, 1978.

References are by year, month and page of issue, in that order; thus, the entry "1954 Aug. p. 77" refers to page 77 of the August, 1954, issue. The Index consists of eight independent parts, each alphabetically arranged, as follows:

Index to Topics offers access to the subject matter covered in 2,964 articles and some 3,500 "Science and the Citizen" items published in 362 issues indexed. This is a rotated key-word index. That is, the topics covered in a given article or item are cited by "key words" (average of seven per article and two per item). The key words are entered together in a cluster, and each key word takes its turn as the first term in the cluster in its entry and reentry down through the alphabet of this Index. Thus:

DNA, double helix, X-ray crystallography, genetic code, structure of DNA resolved 1954 Oct. p. 54-61 [5] double helix, DNA, X-ray crystallography, genetic code, structure of DNA resolved 1954 Oct. p. 54-61 [5] genetic code, DNA, double helix, X-ray crystallography, structure of DNA resolved 1954 Oct. p. 54-61 [5] X-ray crystallography, DNA, double helix, genetic code, structure of DNA resolved 1954 Oct. p. 54-61 [5]

In most eases, a secondary descriptive phrase, highlighting some aspect of the entry (in the example above: structure of DNA resolved) rides along with the rotating key words. Each entry is designed to serve, therefore, as a "mini-abstract" of the original.

Entries that begin with the same key word are listed in chronological order; articles are listed first, and "Science and the Citizen" items follow.

Articles are referenced by first and last page numbers (thus: 1978 June p. 60-72); "Science and the Citizen" items, by first page number (thus: 1978 June p. 74).

References to about one third of the articles close with a one- to four-digit number in brackets (in the example above: [5]); this is the Offprint number and identifies articles republished as Offprints by W. H. Freeman and Company (660 Market Street, San Francisco, California 94104).

Listing of Tables of Contents in chronological order permits ready identification, by titles and authors, of the articles cited in the foregoing index.

Index to Authors lists all authors of articles.

Index to Titles lists all articles by the first word in the title (exclusive of "The" or "A") and by the other key words in the title. "Underwater Archaeology in the Maya Highlands" thus appears under "Archaeology" and "Maya" as well as "Underwater."

Index to Book Reviews lists longer book reviews. The section is divided into three parts: Authors of books reviewed, Titles of the books and Reviewers.

Index to Mathematical Games lists the puzzles, games and diversions presented in the department since its inception in January, 1957, under editorship of Martin Gardner. It also includes Gardner's article on Flexagons (December, 1956) and the "twelve-ball" problem that eropped up in "The Amateur Scientist" in 1955.

Index to The Amateur Scientist lists the projects, experiments and demonstrations presented in this department from April, 1952, through February, 1976, (under the editorship of A. G. Ingalls until April, 1955, and thereafter under the editorship of C. L. Stong) and from July, 1977, through June, 1978, under the editorship of Jearl Walker.

Index to Proper Names lists the names of all persons mentioned in the articles or "Science and the Citizen" items and of places and institutions featured in a primary role.

The indexing was accomplished with collaboration of Excerpta Medica B. V., of Amsterdam; Infonet B. V., of Amsterdam, conducted the computer processing of the entries and composition of the pages.

THE EDITORS

November, 1978

BOARD OF EDITORS: Gerard Piel (Publisher), Dennis Flanagan (Editor), Francis Bello (Associate Fditor), Philip Morrison (Book Editor), Judith Friedman, Brian P. Hayes, Paul W. Hoffman, Jonathan B. Piel, John Purcell, James T. Rogers, Armand Schwab, Jr., Jonathan B. Tucker, Joseph Wisnovsky, and K. Chester (up to April, 1952). Albert G. Ingalls (up to April, 1955), E. P. Rosenbaum (up to June, 1963), James R. Newman (up to July, 1966), Leon Svirsky (up to May, 1974), C. t. Stong (up to February, 1976).

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aequorin, ATP, muscle contraction, calcium, barnacle,		economic development, Mediterranean Project, United Nations	
	pr p 84-93 [1175]	1960 July p 86–103	
aerial mapping, aerial photography, airborne radar, all-	weather imaging,	affatoxin, carcinogenesis, Aspergilles flavus 1964 Nov p 60	
radar, radar holography, side-looking radar	0 04 05 (00/1	Africa, termite, entomology, insect behavior, air conditioning,	
	Oct p 84-95 [386]	airconditioned termite nests 1961 July p 138-145 marriage, sister exchange, marriage contracts 1975 Dec p 84-94	
aerial photography, natural resources, infrared photogra-			
sensing, multiband camera, remote sensing of natu		Bantu language, Early Iron Age culture, language diffusion, linguistics 1977 Apr p 106-114	
	1968 Jan p 54-69	African drum language, communication, drums, gong language, talking	
aerial mapping, airborne radar, all-weather imaging,		drums 1971 Dec p 90–94	
	Oct p 84-95 [386]	African hominids, brain evolution, fossil hominid brains hominid, human	
aerial plankton, animal migration, species dispersion, in	sect physiology,	brain, pongid brains, endocranial casts 1974 July p 106-115 [686]	
agricultural pest, entomology, wind-borne dispersa		African rifts, gravity, ocean floor, mid-ocean ridge, oceanography,	
aerobic metabolism, chloroplast, oxygen cycle, photosyr	3 Dec p 132~138	discovery of submarine rifted ridge 1960 Oct p 98-110	
ozone, oxidation-reduction reactions, geological red	ord oxugen-	'after effects', human eye, optical illusion, vision, sensory perception,	
	p 110-123 [1192]	visual cortex, 'cortical satiation' 1962 Jan p 44-49	
carbon balance 1970 Sept ATP, muscle, glycolysis, aerobic metabolism, oxygen		afterimages, color vision, photochemistry, sensory discrimination, visual	
formation, anaerobic metabolism, energy mechanis	ms in muscle	pigments, photochemistry of color perception	
1972. Ma	гр 84-91 [1244]	1963 Oct p 84-93 [1089]	
ATP, muscle, glycolysis, oxygen debt, lactic acid form	ation, aerobic	phosphenes, vision, perception, prosthesis for blind, self-illumination	
metabolism, anaerobic metabolism, energy mechan	isms in muscle	of visual centers 1970 Feb p 82–87	
1972 Ma	r p 84-91 [1244]	negative aftereffects, optical illusion, visual perception	
see also oxidative phosphorylation	,	1976 Dec p 42-48 [574]	
peradunamic whistles, feedback, vortex, edge tone, hole t	one, sound	Agamemnon, Mycenaean civilization, Classical archeology, burial	
waves whistles flutes organs and rocket engines 1	970 Jan p 40-46	treasure, dig started by Schhemann continues 1954 Dec p 72-78	
aerodynamics, shock waves, shadow photography, speed	of sound, Mach	agammaglobulinemia, gene expression, alkaptonuria, Wilson's disease,	
cones, ballistics	49 Nov p 14-19	congenital anomalies, chemistry of hereditary disease, one gene-one	
bird flight, airfoil, soaring, thermal cells 19	52 Apr p 24-29	enzyme hypothesis 1956 Dec p 126-136	
boundary layer, airfoil, laminar flow, turbulence 19	54 Aug p 72-77	bacterial infection, blood proteins, gammaglobulin, antibodies, immunology, tissue grafts, hereditary immunological deficiency	
hadges suspension bridges, harmonic oscillation 193	54 Nov p 60-71	immunology, tissue grafts, nereditary initiationogetal deficiency 1957 July p 93–104	
bird flight, weight-strength ratio, bone structure, respir	alory air sacs,	immunology, value of normally unhygienic environment	
birds as flying machines 17:	mai p oo-so	immunology, value of normally unhygicing chrysomical.	
insect flight, locust, wind tunnel, efficiency of locust flight	gai Mar p 116–124	appr. algae, phytoplankion, kelp, food chain, algin 1952 Dec p 15-17	
arlerons, aircraft design, smoke tunnel, airfoil, boundar	v laver, low-	Agassiz, glaciation, paleoniology, natural history, Louis Agassiz,	
	56 Apr p 46-51	fostering of science in America 1949 July p 48-51	
speed flight	•		

age of elements, spectroscopy, age of universe, element formation, mass	economic development, industrialization, population control,
spectroscopy, nucleochronology, radioactive nuclei, stellar evolution,	technology transfer, food production, economic planning, India, economic development by democratic planning
supernovae 1974 Jan p 69-77 cosmology, 'big bang' theory, 'closed' universe, 'open' universe,	1963 Sept p 189-206
universe expansion, deuterium abundance, average density	equatorial rain forests, tropical climate, laterization, developing
1976 Mar p 62–79	countries, lateritic soil 1964 Nov p 96–102 [870]
age of universe, spectroscopy, age of elements, element formation, mass	food supply, human nutration, population control, world food bank, human population 1974 Sept. p 160–170
spectroscopy, nucleochronology, radioactive nuclei stellar evolution, supernovae 1974 Jan p 69–77	world food production 1971 Oct. p 41
age-sex distribution, fertility, US census, human resources, mortality	world food production 1972 Jan. p 45
rates population of U.S. 1951 Sept. p. 28–35	agricultural resources, land use, grazing, forestry, rangeland, land management, U.S Western states 1970 Feb p 88-96 [1169]
US census, urbanization, baby boom, family size, central city, suburbs, US census at 1960 1961 July p 39-45	gene manipulation, irrigation, photosynthesis, food and agriculture
education, U S population, labor force, demographics, gross national	1976 Sept. p 164-178
product, US census, more from the US census of 1960	agricultural revolution, slavery, Classical civilization 1949 June p 40-43
1962 Oct p 30–37	New World archeology, mound builders, statistical seriation Mississippian culture, pre-Columbian Mississippi valley on verge of
agglutination response, cancer, cell membrane, immunology, lectins, proteins 1977 June p 108–119 [1360]	urban revolution 1952 Mar p 22-27
aggression, group behavior pecking order, social psychology,	Jarmo site, radiocarbon dating archeology, cave to village at Jarmo
experiments in group behavior 1956 Nov. p. 54–58 [154]	1952 Oct p 62–66 Neolithic archeology, tools, slash-burn agriculture, cultural evolution,
violence, delinquency, motion picture film, television, catharsis, effects of observing filmed violence 1964 Feb p 35-41 [481]	Stone Age forestry and agronomy 1956 Mar p 36-41
rats, animal behavior, social behavior, territorial behavior, natural	Fertile Crescent, human evolution, cultural anthropology, Neolithic
history, Rattus rattus Rattus norvegicus 1967 Jan p 78-85	archeology, 8000 B C domestication of plants and animals
aging, death, life expectancy, biology of senescence 1948 June p 40-43 leaf shape, duckweed, systematic study of familiar amateur observation	1960 Sept. p 130–148 [605] demographics, population growth, cultural evolution, Industrial
1949 Oct. p 22-24	Revolution, population explosion, human evolution, historical
rotifer, life expectancy, experiments in aging, age of mother	perspective on human population growth, how many ever lived
1953 Apr p 38-42 death rate, disease etiology, life expectancy, male female life	1960 Sept. p 194–204 [608] New World archeology Mexican agriculture, corn, urbanization, New
expectancy 1958 Feb p 22-27	World agricultural revolution 1964 Nov p 29-37 [625]
death rate, life expectancy, comparative life spans in man and other	cities, urbanization, Industrial Revolution, communication, origin and
animals 1961 Aug. p 108-119 cell physiology, gerontology, life expectancy, manifestations of aging	evolution of cities 1965 Sept p 54–63 human population, food production, fertilizers, pollution, irrigation,
1962 Jan p 100–110	biosphere, soil erosion, biosphere capacity to produce food
collagen, tendons, biological age 1963 Apr p 104-114 [155]	1970 Sept. p 160–170 [1196]
fibroblasts, mitosis, cell culture, somatic cells, cell, DNA replication, experiments in aging 1968 Mar p 32-37 [1103]	Hoabinhian culture, Neolithic archeology, Spirit Cave site, Thailand 1972 Apr p 34-41 [675]
experiments in aging 1968 Mar p 32-37 [1103] radiation damage, free radicals, electron-spin resonance, chemical	agricultural society, Macedonia, Nea Nikomedeia, Neolithic village, clay
bond, spectroscopy, effects of free radicals on living systems	figurines, domestic animals, oldest Neolithic site in Europe
gerontology, longevity, senility, medical care 1970 Aug. p 70-83 [335]	hunting, herding, food gathering, tribal cultures, aboriginal culture,
cataract, eye lens, human eye, vision 1975 Dec. p 70–81	India, 'living prehistory' in India 1967 Feb p 104-114
cytochrome C for senility? 1949 Aug. p 24	agricultural system, Nabataean culture, irrigation, wadi, desert,
free radicals 1969 Mar p 50 Agora, Classical archeology, Athens 1950 Aug. p 46–51	restoration of Nabataean irrigation works in the Negev 1956 Apr p 39-45
Agricola, de re Metallica, woodcuts from Hoover translation	social values, Mormons, Zunis, Spanish-Americans, Navaho,
1951 Feb p 46-47	comparative study of cultures in New Mexico 1956 July p 25-31
agricultural economics, forage crops, grasses, agronomy, hay, legumes, livestock feed, ruminants, silage, Rhizobium bacteria	commerce, market, peasants, peasant markets in Haiti 1960 Aug. p 112-122 [647]
1976 Feb p 60-75	chinampa, canals, drainage, Mexican agriculture, Aztec civilization.
food and agriculture, food processing, US agriculture, 'agribusiness' 1976 Sept. p 106-123	highly productive farm plots, Aztec empire 1964 July p 90-98 [648] Arawak Indians, earthworks, flood plain, ridged fields, New World
agricultural system, cropping systems, food and agriculture	archeology 1967 July p 92–100
1976 Sept. p 98–105	water cycle, transpiration, evaporation, runoff, ocean, precipitation,
agricultural ecosystem, solar radiation, photosynthesis biosphere, climax ecosystem, energy cycle, ecosystem, food chain, respiration,	biosphere, photosynthesis 1970 Sept. p 98-108 [1191] animal husbandry, ecosystem, energy cycle, power, New Guinea.
biosphere energy cycle 1970 Sept p 64-74 [1190]	tropical agriculture 1971 Sept. p. 116–132 [666]
agricultural history, animal domestication, archeology, plant	agricultural economics, cropping systems, food and agriculture
domestication, food and agriculture 1976 Sept. p 88–97 agricultural irrigation, canals, hydro-engineering, pipelines, Jordan Valley	1976 Sept. p 98~105 agricultural technology, dust storms, drought, dry-land farming, soil
Plan, water supply, Israel, Jordan 1965 Mar p 23-31	reclamation, mulch, shelter belts, U.S. High Plains 1948
agricultural pest, alfalfa caterpillar, ecology, insecticide, life cycle, wilt disease, predation 1954 June p 38-42	1948 Aug. p. 7–11
hacterology, biological pest control, insecticide, insect physiology	ferulizers, insecticide, herbicide, chemical agriculture 1952 Aug. p 15-19
virology, entomology, living insecticides 1956 Aug. p 96–104	dust storms, dry land farming, Great Plains, marginal farmlands, wind
fire ants, dieldrin, pest control, insecticide 1958 Mar p 36-41 corn borer, insect behavior, species specificity, corn, adaptation of	erosion 1954 July p. 25_29
parasite to host 1958 May p 87-94	weed control insect herbivores, leaf-eating beetle, Klamath weed, living herbicides 1957 July p 56-67
aerial plankton, animal migration, species dispersion, insect	trace elements, cobalt, desert ecology, land reclamation, vitamin B12
physiology, entomology, wind borne dispersal of species 1963 Dec. p 132-138	synthesis, reclamation of infertile Austrialian land
agricultural production, poverty, education, economic development,	Negev desert, irrigation, desert ecology, land reclamation, Israel, desert
language, Peru literacy, Cornell-Peru experiment in economic development 1957 Jan. p 37-45	1001amation 1960 Mar n 54 62
Jan p J1-43	voil erosion, irrigation, poverty, economic development, afforestation, Mediterranean Project, United Nations 1960 July p 86–103
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economic development, technology transfer, human nutrition, food	
production, nutritional self-sufficiency in economic development	ailcrons, aircraft design, acrodynamics, smoke tunnel, airfoil, boundary
1963 Sept p 72–80 [1153]	inyer, iow-speed ingnt 1056 Apr - 46 ct
economic development, industrialization, national economic policy,	air-preatning lishes, evolution, lunglish. Devonian period fish
Federal intervention in economic development of U S South	physiology, conquest of land-breathing organs
1063 Cont - 201 000	1968 Oct p 102-111 111251
plant growth, food production, fertilizers, chemical industry, increasing	air continioning, Airica, termite, entomology, insect behavior
world food supply 1965 June p. 62–72	airconditioned termite nests 1961 July p. 138, 145
world food supply 1965 June p 62-72 irrigation, ground water, artesian well, Sahara desert, water resource	air vent, wind tower, domed roof, architecture, cooling system passive
management, land reclamation, intercalary water, 'fossil' water,	cooling systems in Iranian architecture 1978 Feb p 144–154 [705]
	heat storage in salt 1971 Aug p. 46
making desert fertile 1966 May p 21-29 poultry production, food production, animal husbandry, chicken, eggs,	air currents, soaring, wind velocity, thermal cells, aerodynamics.
US chicken factories 1966 July p. 56-64	ornithology, bird flight, flight of soaring birds 1962 Apr p 130-140
US chicken factories 1966 July p 56-64 People's Republic of China, industrial technology, economic	air drive, ultracentrifuge, molecular weight, sedimentation, fractionation,
development, technology in People's Republic of China	oil drive, magnetic suspension, 900,000 g, 60 million r p m
	1951 June p 42~51
mechanical harvesting cotton picker terrote harvest harvest	air masses, atmospheric circulation, hurricanes, upper atmosphere,
mechanical harvesting, cotton picker, tomato harvester, hay cuber, cherry picker, grain combine 1967 Aug p 50-59	tropical origin of hurricanes 1957 Aug p 33-39 [847]
cherry picker, grain combine 1967 Aug p 50-59	weather satellites, Tiros, telemetry, atmospheric circulation, heat
sulfur, sulfune acid, Frasch process, sulfur demand-and-supply production 1976 May p. 62-72	budget of Earth, videocameras, photographic weather maps, weather
production 1976 May p 62-72 land reform, food supply, population growth, FAO, human nutrition,	forecasting 1961 July p 80-94
	air pollution, catalysis, combustibility, fly ash, dust storms, metallurgy,
FAO Indicative World Plan 1970 Aug p 54-69 [1186] China, economic development, rice, hybrid wheat, hybrid rice,	fine particles 1950 Dec p 50-53
	smog, atmospheric inversion 1952 May p 15-19
- · · · · · · · · · · · · · · · · · · ·	smog, 'blue haze', atmospheric inversion, particulates, ozone,
center-pivot irrigation, irrigation, ground water 1976 June p 90-99 herbicide, mulch, weed control, tillage without plow	peroxides, photochemistry 1955 May p 62-72
1977 Jan p 28-33 [1349]	camouflage, evolution, melanism, moths, speciation, population
drip irrigation, irrigation, trickle irrigation 1977 Nov p 62-68 [1371]	genetics, mutation, genetic variation, evolution observed
chemical revolution 1952 Apr p 36	climate, carbon dioxide 'window', meteorology, fossil fuel, threat of
no-tillage farming 1968 Aug p 46	'egenhouse effect' 1959 July p 41-47 [823]
drip irrigation 1975 Aug p 48	bronchitis, emphysema, public health, smog, environmental health,
plowless farming 1975 Nov p 60	US cities, smog and public health 1961 Oct p 49-57 [612]
agriculture, see agronomy, agricultural system, agricultural technology	smog, automobile emissions, ozone, urban transport, air pollution
and the like	control in Los Angeles 1964 Jan p 24-31 [618]
agronomy, soil structure, chernozems, podzols, latozols, tundra, alluvial	aerodynamics, microclimate, micrometeorology, fluid dynamics,
soils, ecology of soil, soil crosion, the soils of the world and their	troposphere, meteorology, turbulence, atmospheric phenomena near
management 1950 July p 30–39	the ground 1964 Oct p 62-76
corn, hybrid corn, technology and promise of hybrid corn	cities, water supply, sewage disposal, smog, water pollution, taxation,
1951 Aug p 39-47	Los Angeles, New York, metabolism of cities 1965 Sept p 178-190
auxins, plant growth, oak, giberellin, function of plant growth hormone	automobile, electric automobile, battery, weight, cost, performance of
1957 Apr p 125–134 [11]	electric automobile 1966 Oct p 34-40
climate, plant growth, greenhouse, photoperiodicity, day-night	cities, climate, heat emission, heat pollution, microclimate, infrared
temperature, 'phytotron', environment simulator 1957 June p 82-94	photography, heat island, climate of cities 1967 Aug p 15-23 [1215]
	cloud seeding water cycle, water drop, ice crystals, fog, inversion layer,
Lysenko, genetics, potato virus, virus disease, vernalization, the Lysenko affair 1962 Nov. p. 41–49	smog 1968 Dec p 74-82 [876]
Lysenko affair 1962 Nov p 41-49 irrigation, sea water, salt-water agriculture, and lands, salt tolerance	air transport, technology assessment, science policy, automobile
1967 Mar p 89-96	transportation, noise pollution, technology assessment institutions
plant hybrids, wheat, hybrid wheat, food production	proposed 1970 Feb p 13-21 [332]
1969 May p. 21–29	rickets, vitamin D, ultraviolet radiation, osteogenesis, calcium
chemical mutagens, plant breeding 1971 Jan p 86-95 [1210]	metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207]
corn, lysine, plant breeding, plant protein, human nutrition,	chmate, atmospheric circulation, carbon dioxide 'window', particulates, ozone, temperature of Earth, human activity and climatic change
malnutration, high-lysine corn 1971 Aug p 34-42 [1229]	1971 Jan p 32-42 [894]
legumes, nutrogen fixation, soybean products, plant protein	corona discharge, electrocoating, fly ash, electrostatics, photocopying
1974 Feb p 14-21	xerography, electrostatic precipitation and seperation
grain, proteins, plant protein, plant hybrids, Triticale 1974 Aug p 72-80	1972 Mar p 46-58
disease-resistant plants, plant breeding, plant disease, fungal infection,	automobile engines, rotary engine, Wankel engine, auto engineering
plant pathogens, sugarcane, mechanism of disease resistance in	1972 Aug p 14-23
19/5 Jan p 80-88 [1313]	Clean Air Act, emission standards, Environmental Protection Agency
agricultural economics, forage crops, grasses, hay, legumes, livestock	1973 June p 14-21
food summants silage Rhizobium bacteria 1970 red p 00-73	evolution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90-99 [1314]
'arean revolution' food and agriculture, maize, potatoes, Mexican	predation, evolution observed again effect of rocket exhaust on upper-air 1963 Mar p 74
19/6 Sept p 120-130	asbestos dust carcinogen 1964 Dec p 64
to a manufacturer, India food and approulture, technology transier,	Los Angeles carbon monoxide emission control 1965 May p 52
monsoons, irngation, fertilizers, rice, wheat, hybrid crop plants 1976 Sept p 154-163	auto emission standards, safety standards 1965 Aug p 44
1976 Sept p 134-163	increased precipitation downwind from industry 1968 Apr p 49
crop yields, plant breeding, rice, wheat, maize, food and agriculture,	sulfur diovide 1968 Nov p 56
plant general 1070 Oct n 54	US clean-air auto race 1970 No. p 44
Southern teat bugin	cadmium, toxic metal 1971 Aug p 47 low-rollbyton automobile engines 1971 Sept p 80
plant origins, sweet potato 1974 Jan p 51	
1 less sols tolerant crops	automobile engines, catalytic converter 1973 Apr p 44 LPG for internal combustion fuel? 1973 Sept p 69
1370 000 p 00	automobile exhaust-emission standard 1975 Apr p 53
allouthus, city trees, pollution effects, tree cloming, ginkgo, London pants	automobile engines fuel economy 1977 Jan p 43
Norway maple	ir pressure, acoustic pulses, lightning, thunder 1975 July p 80-90

air traffic control, air transport, radar	1952 June p. 64-65	Alaskan oil, Prudhoe Bay discovery	1968 Sept. p. 86
airport, transportation industry, radar	1960 Dec. p. 47-55	albatross, evolution, animal behavior, bird flight	t, sexual bebavior,
air transport, air traffic control, radar	1952 June p. 64-65		1970 Nov. p. 84-93 [1204]
aircraft landing, automatic pilot, blind landing, inst		Albatross voyage, ocean floor, sonar, seismology	y, sedimentary cores,
system, precision approach radar, ground-contro	lled approach	isotope dating, Swedish deep-sea expedition	n 1950 Aug. p. 42–45
system, precision approach in a general constant	1964 Mar. p. 25-35	albedo, Antarctica, climatology, solar radiation,	atmospheric circulation,
cargo bandling, shipping, containerization, automa	tic control, loading	Antarctica in Earth's heat budget	1962 Sept. p. 84-94 [859]
ongo omame, omppme, con, arri	1968 Oct. p. 80-88	wind, solar radiation, energy cycle, biosphere,	, atmospheric circulation,
technology assessment, science policy, automobile t		climate, ocean circulation, terrestrial radiat	ion, carbon dioxide
pollution, noise pollution, technology assessment	institutions	'window', Earth energy cycle	1970 Sept. p. 54-63 [1189]
proposed 1970	Feb. p. 13-21 [332]	asteroids, meteorites, planetisimal collisions,	solar system formation,
accelerometer, aircraft navigation, navigation, inert		primordial dust cloud	1975 Jan. p. 24-33
gyroscope, commercial adaptation of military an	d space technology	albinism, gene mutation, Siamese cat, visual cor	tex, white mink, white
gyroscope, commercial adaptation of mantally an	1970 Mar. p. 80-86		1974 May p. 44-54 [1294]
air vent, air conditioning, wind tower, domed roof, ar		associated with cross-eyedness in Siamese cat	s and white tigers
system, passive cooling systems in Iranian archit	ecture	•	1973 Aug. p. 43
	Feb. p. 144-154 [705]	alchemy, transmutation, philosopher's stone, sci	
airbag, automobile design, automotive safety, seat bel		2,	1952 Oct. p. 72-76
tests	1973 Feb. p. 78–86	alcohol, digestion, hydrochloric acid, aspirin, sto	
airborne infection, histoplasmosis, fungal infection, re			1972 Jan. p. 86-93 [1240]
epidemiology, coccidioidomycosis	1948 June p. 12–15	depresses appetite	1951 Jan. p. 30
airborne radar, aerial mapping, aerial photography, a		in violent deaths	1951 Aug. p. 30
radar, radar bolography, side-looking radar	n-weather magne,	cardiovascular reaction	1965 June p. 57
	7 Oct. p. 84-95 [386]	alcohol metabolism, detoxification, drug inactiva	
airborne warning and control system aircraft, see: AW		function, metabolism of drugs, cirrbosis	
aircraft design, ailerons, aerodynamics, smoke tunnel	airfoil boundary	alcobolism, fatty liver, liver function, mainutr	
layer, low-speed flight	1956 Apr. p. 46–51		1976 Mar. p. 25–33 [1336]
	1960 Aug. p. 41–49	limit of metabolism	1952 Nov. p. 50
aeronautics, vertical take-off aircraft aeronautics, supersonic flight, commercial aircraft.		alcohol tolerance, metabolism, drug abuse, liver	function acetaldehyde
aviation industry, technology and economics of	conerconic transport	arednot foretained, metabolishi, erug ubuse, nver	1953 Dec. p. 86–90
aviation industry, technology and economics of	1964 June p. 25–35	alcobolism, metabolism, drunkeness, physiologic	
aeronautics, helicopters, belicopter flight, history,		conditions effect of alcohol	1948 Dec. p. 50–53
aeronaudes, neucopiers, bencopier ingui, mistory,	1967 Apr. p. 38–46	alcobol metabolism, fatty liver, liver function.	
sirems landing automatic niles blind landing sinte			1976 Mar. p. 25–33 [1336]
aircraft landing, automatic pilot, blind landing, air tr		drug reinforces abstinence	1949 May p. 28
landing system, precision approach radar, groun	1964 Mar. p. 25-35	on the increase	1952 June p. 40
approach aircraft navigation, accelerometer, navigation, air tra		as occupational disorder	· 1953 Apr. p. 48
navigation supersons commercial adoptation of	iisport, meruai	role of culture in etiology	1957 July p. 69
navigation, gyroscope, commercial adaptation of	1970 Mar. p. 80–86	aldosterone, actinomyosin, ecdysone, cortisone,	insulin estrogens gene
technology	1970 Mar. p. 80-80 1957 June p. 70	activation, RNA synthesis, growth bormon	
inertial guidance aircraft propulsion, gas turbine, centrifugal compress	•		1965 June p. 36–45 [1013]
compressor, ducted fan, electric power generatie		Aleutian culture, subverted by dories	1955 June p. 54
compressor, ducted rail, electric power generalis	1953 Nov. p. 65–72	Aleutian Islands, Aleuts, Eskimo, genocide, Aleu	its as 'Southern Eskimos'
aircraft-wake vortexes, aerodynamics, contrails, fligh		. modelin Islands, 1 needs, 22mmo, genocide, 7 nee	1958 Nov. p. 112–124
wake turbulence	1974 Mar. p. 76–83	Aleutian Trench, ocean floor, topograpby, seam	
aircraft wing, aeronautics, speed of sound	1969 Sept. p. 95	echo-sounding, the Pacific floor	1952 Apr. p. 19–33
Airflow automobile, automobile history, streamlining	g	Aleuts, Eskimo, genocide, Aleutian Islands, Ale	
	Aug. p. 98-106 [697]	, , , , , , , , , , , , , , , , , , ,	1958 Nov. p. 112–124
airfoil, aerodynamics, bird flight, soaring, thermal co		Alexander, arcbeological excavation, Phrygian of	ivilization Gordion 700
,,	1952 Apr. p. 24-29	B.C., preclassical Greek link with East	1959 July n 100_109
boundary layer, laminar flow, turbulence, aerody	namics	alfalfa caterpillar, ecology, insecticide, life cycle,	agricultural nest wilt
, , , , , , , , , , , , , , , , , , , ,	1954 Aug. p. 72-77	disease, predation	1954 June p. 38–42
ailerons, aircraft design, aerodynamics, smoke tur		algae, phytoplankton, kelp, food chain, algin, as	gar 1952 Dec. p. 15-17
low-speed flight	1956 Арг. р. 46-51	chlorella, food production	1953 Oct. p. 31-35
aerodynamics, boomerang, computer graphics, ac	tual and theoretical	lichens, symbiosis, fungi, desert ecology, polar	r ecology, symbiotic
boomerang orbits	1968 Nov. p. 124-136	nature of lichens	959 Oct. p. 144-156 [111]
airglow, Earth, aurora, corpuscular streams, solar sp	nicules, nightglow,	deuterium, reaction kinetics, metabolism of m	ammals, penicillin mold
aurora and airglow	1955 Sept. p. 140–150	heavy water biology	1960 July n 106_116
atmosphere, ionosphere, solar radiation, ozone, o	xygen atoms, upper	photosynthesis, chloroplast, oxidative phospb	orylation, Calvin cycle.
atmosphere, laboratory simulation, atomic ene		path of carbon in photosynthesis	1962 June p. 88–100 (1221
	1966 Mar. p. 102-110	lichens, fungi, symbiosis, fungi as symbionts i	n lichens
atmospheric ionization, spectroscopy, atmospher			1963 Feb n 122 132
photochemistry	1972 Jan. p. 78–85	coral, coral rings, fossil reefs, paleontology, cl	imatic change, dating by
airplane seats, should face stern	1951 Dec. p. 36	coral rings	1966 Oct n 26_33 (871)
airport, air traffic control, transportation industry,		Acetabularia, giant cells, mermaid's wineglass	cell nucleus extonlacm
alanine RNA nuclein acid audantia	1960 Dec. p. 47-55	grant cells in study of nucleus-cytoplasm in	teraction
alanine, RNA, nucleic acid, nucleotide sequence, the	CNA, enzyme	196	6 Nov n 118_124 (1057)
cleavage, fragment assembly, first nucleotide s	edaguence	Aylan, mannan, plant cell wall, cellulose, xylar	n, mannan in place of
alarm reaction, stress, psychosomatic illness, kidne	6 Feb. p. 30–39 [1033]	centions in marine plant tissue 10	68 Tune n 102 108 (1110)
	y disorder, 1949 Mar. p. 20–23 [4]	forest communities, lichens, ecology, food cha	un, nitrogen cycle, treeton
wild rats stronger	1051 Dec n 42	ccosystems	1073 Tuno n 74 CO (1274)
Alaska, Arctic, Stone Age hunters, Siberia, Greenla	and Dorset eniture	bacteria, reguines, introgen lixation, nitrogena	ice genetic engineering
circumpolar Stone Age culture	1054 1 20 00	riabel process, rhizobium, legumes, symbio	sis, nitrogenase,
New World archeology, Onion Portage site, Eski	ma Darina land	biological nitrogen fixation	1977 Mar. p. 68-81
bridge, human migration, stone artifacts, gater	way to America	algal bloom, blue-green bacteria, cyanobacter	ia, gas vacuoles
	1968 June p. 24-33	bacteria, photoelectric effect	977 Aug. p. 90-97 [1367]
			1964 Mar. p. 59

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ceonomic development, technology transfer, human nutrition, food	allarana aifi fait	
production, nutritional self-sufficiency in economic development	ailerons, aircraft design, aerodynamics, smoke	tunnel, airfoil, boundary
1963 Sept. p. 72-80 111531	layer, fow-speed flight	1956 Apr. p. 46-51
cconomic development, industrialization, national economic policy	air-breathing fishes, evolution, lungfish, Devon physiology, conquest of land-breathing or	ian period, fish
Federal intervention in economic development of U.S. South		
1963 Sept. p. 224_232	air conditioning, Africa, termite, entomology, in	968 Oct. p. 102-111 [1125]
plant growth, food production, fertilizers, chemical industry, increasing	airconditioned termite nests	
world food supply 1965 June p. 62–72	air vent, wind tower, domed roof, architectur	1961 July p. 138-145
trrigation, ground water, artesian well, Sahara desert, water resource	cooling systems in Iranian architecture	978 Feb = 144 154 17051
management, land reelamation, interealary water, 'fossil' water,	heat storage in salt	1971 Aug. p. 46
making desert fertile 1966 May p. 21–29	air currents, soaring, wind velocity, thermal cell	s. aerodynamics.
poultry production, food production, animal hushandry, chicken, eggs,	ornithology, bird flight, flight of soaring bi	rds 1962 Apr. p. 130-140
U.S. chicken factories 1966 July p. 56-64	air drive, ultracentrifuge, molecular weight, sedi	mentation, fractionation.
People's Republic of China, industrial technology, economic	oil drive, magnetic suspension, 900,000 g; 6	0 million r.p.m.
development, technology in People's Republic of China		1951 June p. 42-51
1966 Nov. p. 37–45	air masses, atmospherie eirculation, hurricanes,	
mechanical harvesting, cotton picker, tomato harvester, hay cuber, eherry picker, grain combine 1967 Aug. p. 50-59	tropical origin of hurricanes	1957 Aug. p. 33-39 [847]
sulfur, sulfuric acid, Frasch process, sulfur demand-and-supply	weather satellites, Tiros, telemetry, atmospher	ic circulation, heat
production 1970 May p. 62–72	budget of Earth, videocameras, photograph	
land reform, food supply, population growth, F.A.O., human nutrition,	forecasting	1961 July p. 80–94
F.A.O. Indicative World Plan 1970 Aug. p. 54–69 [1186]	air pollution, catalysis, combustibility, fly ash, de	
China, economic development, rice, hybrid wheat, hybrid rice,	fine particles smog, atmospheric inversion	1950 Dec. p. 50-53 1952 May p. 15-19
irrigation, livestock 1975 June p. 13-21	smog, 'blue haze', atmospheric inversion, parti	
center-pivot irrigation, irrigation, ground water 1976 June p. 90-99	peroxides, photochemistry	1955 May p. 62-72
herbicide, mulch, weed control, tillage without plow	camouflage, evolution, melanism, moths, speci	
1977 Jan. p. 28-33 [1349]	genetics, mutation, genetic variation, evoluti	
drip irrigation, irrigation, trickle irrigation 1977 Nov. p. 62-68 [1371]		1959 Mar. p. 48-53 [842]
chemical revolution 1952 Apr. p. 36	climate, carbon dioxide 'window', meteorology	, fossil fuel, threat of
no-tillage farming 1968 Aug. p. 46		1959 July p. 41-47 [823]
drip irrigation 1975 Aug. p. 48	bronchitis, emphysema, public health, smog, en	
plowless farming 1975 Nov. p. 60		1961 Oct. p. 49-57 [612]
agriculture, see: agronomy, agricultural system, agricultural technology	smog, automobile emissions, ozone, urban tran	sport, air politition 1964 Jan. p. 24-31 [618]
and the like	eontrol in Los Angeles aerodynamics, microclimate, micrometeorology	
agronomy, soil structure, chernozems, podzols, latozols, tundra, alluvial soils, ecology of soil, soil erosion, the soils of the world and their	troposphere, meteorology, turbulence, atmos	nheric phenomena near
management 1950 July p. 30–39	the ground	1964 Oct. p. 62-76
corn, hybrid corn, technology and promise of hybrid corn	cities, water supply, sewage disposal, smog, wat	er pollution, taxation,
1951 Aug. p. 39–47	Los Angeles, New York, metabolism of cities	1965 Sept. p. 178-190
auxins, plant growth, oak, giberellin, function of plant growth hormone	automobile, electric automobile, battery, weight	, cost, performance of
1957 Apr. p. 125–134 [11]	electric automobile	1966 Oct. p. 34-40
elimate, plant growth, greenhouse, photoperiodicity, day-night	cities, elimate, heat emission, heat pollution, mic	croclimate, inirared
temperature, 'phytotron', environment simulator	photography, heat island, climate of cities	7 Aug. p. 15-23 [1215]
1957 June p. 82–94	cloud seeding, water cycle, water drop, ice crysta	ls for inversion layer.
Lysenko, genetics, potato virus, virus disease, vernalization, the Lysenko affair 1962 Nov. p. 41-49	smog 19	68 Dec. p. 74-82 [876]
Lysenko affair 1962 Nov. p. 41–49 irrigation, sea water, salt-water agriculture, arid lands, salt tolerance	air transport, technology assessment, science pol	icy, automobile
1967 Mar. p. 89–96	transportation, noise pollution, technology ass	essment institutions
plant hybrids, wheat, hybrid wheat, food production	proposed 19	70 Feb. p. 13-21 [332]
1969 May p. 21–29	rickets, vitamin D, ultraviolet radiation, osteogen	esis, calcium
ehemical mutagens, plant breeding 1971 Jan. p. 86-95 [1210]	metabolism, epidemiology, sunlight 1976 climate, atmospheric circulation, carbon dioxide	1) 1)ec. p. /0-91 [120/]
eorn, lysine, plant breeding, plant protein, human nutrition,	ozone, temperature of Earth, human activity ar	d climatic change
malnutrition, high-lysine corn 1971 Aug. p. 34-42 [1229]	19	71 Jan. p. 32–42 [894]
legumes, nitrogen fixation, soybean products, plant protein 1974 Feb. p. 14-21	corona discharge, electrocoating, fly ash, electrost	atics, photocopying,
grain, proteins, plant protein, plant hybrids, Triticale	xerography, electrostatic precipitation and sepe	ration
grain, proteins, plant protein, plant hybrids, 1116611111111111111111111111111111111		1972 Mar. p. 46-58
disease registant plants plant breeding, plant disease, fungal infection,	automobile engines, rotary engine, Wankel engine	, auto engineering 1972 Aug. p. 14-23
plant pathogens, sugarcane, mechanism of disease resistance in	Clean Air Act, emission standards, Environmental	Protection Agency
19/5 Jan. p. 60-66 [1515]	Clean An Act, emission standards, Environmental	1973 June p. 14-21
agricultural economics, forage crops, grasses, hay, legumes, livestock	evolution, melanism, moths, gene mutation, popul	
food suminante cilage Rhizohium bactena 1970 1 co. p. co 75	predation, evolution observed again 1975	Jan. p. 90-99 [1314]
'green revolution', food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept. p. 128–150	effect of rocket exhaust on upper-air	1963 Mar. p. 74
agriculture, technology transfer,	asbestos dust carcinogen	1964 Dec. p. 64
- among issigntion fertilizers fice wheat, hybrid crop plants	Los Angeles carbon monoxide emission control auto emission standards, safety standards	1965 May p. 52 1965 Aug. p. 44
1370 Sept. p. 157	increased precipitation downwind from industry	1968 Apr. p. 49
crop yields, plant breeding, rice, wheat, maize, food and agriculture,	sulfur dioxide	1968 Nov. p. 56
plant genetics 1976 Sept. p. 180–194 plant genetics 1970 Oct. p. 54	U.S. clean-air auto race	1970 Nov. p. 44
Southern leaf blight	cadmium toxic metal	1971 Aug. p. 47
plant origins, sweet potato 1974 Jan. p. 51	tour-pollution automobile engines	1971 Sept. p. 80 1973 Apr. p. 44
high protein soignam 1976 Aug. p. 44D	automobile engines, catalytic converter LPG for internal combustion fuel?	1973 Sept. p. 69
parley, salt-tolerant crops 1976 Oct. p. 60	automobile exhaust-emission standard	1975 Apr. p. 53
estanthus city trees pollution effects, tree cloning, ginkgo, London plants	automobile engines fuel economy	1977 Jan. p. 43
nitanthus, city trees, poliution effects, tree clothing, garage Nov. p. 110-118 Norway maple	air pressure, acoustic pulses, lightning, thunder	1975 July p. 80–90

duminum 'soldering', by ultrasonics 1953 Sept p 80	American soldiers, public opinion, attitude survey, social discrimination, sociology, studies of attitudes and morale of U S troops during
alveolar collapse, acute respiratory failure, intensive care, tracheostomy, lung, emphysema, pathogenesis and treatment of acute respiratory	World War II, including experiments in racial integration of military
failure 1969 Nov p 23–29	units 1949 May p 11–15
alveoli, lung, human physiology, breathing, mechanism of breathing	America's Cup race, yachting, yacht design 1974 Dec p 64
1960 Jan p 138–148	Amerindian, Hopi Indians, Tewa Indians, cultural assimilation, Pueblo
lung collapse, premature infants, lecithin, breathing, surface tension,	Indians 1957 June p 126–136
surfactant, hyaline membrane disease, soaplike agents regulate	Havasupai, Cohonina, Paleolithic culture, prehistoric man in the
surface tension in lungs 1962 Dec p 120–130	Grand Canyon 1958 Feb p 97–102 racial discrimination, genocide, cultural assimilation, civil rights,
gas exchange, thorax, lung, pulmonary ventilation, breathing, human physiology, vital capacity, mechanics and physiology of breathing,	persisting identity of Amerindians 1960 Feb p 37–45
anatomy of lung 1966 Feb p 56–68 [1034]	mining, gypsum, New World archeology, prehistoric man in Mammoth
Ama, diving, diving women, Korea, Japan, breathing, human physiology,	cave 1960 July p 130–140
basal metabolism, adaptation 1967 May p 34-43	Hopewell cult, burial mounds, New World archeology
amanita, mycology, fungi, wheat rust, ergot, potato blight, morel,	1964 Dec p 90–102 Eskimo, burial site, New World archeology, 2000 B C, Port au Choix,
Penicillium notatum, yeast, molds and men 1952 Jan p 28–32 [115]	Newfoundland, skeletons 1970 June p 112–121 [657]
Amanita phalloides, fungi, mushrooms, mushroom poisoning, toxins,	Iroquois Confederacy, New World archeology, cannibalism, Onandaga
thioctic acid 1975 Mar p 90–101	tribe 1971 Feb p 32–42 [658]
Amazon, tropical rain forest, developing countries, resource prospecting,	burial mounds, Cahokia, Mississippian culture, New World archeology
economic planning, forest management, mineral resources, electric	1975 Aug p 92–101 [688]
power, the Amazon frontier 1948 May p 11–14	New World archeology, burial mounds, Labrador 1976 Nov p 122–129
amber, ants, insect evolution, insect census, insects in 'more than royal tomb' 1951 Nov p 56-61 [838]	Amerindian antiquity, radiocarbon dating 1950 Nov p 26
amber mutants, bacteriophage, gene mapping, virus particles	Amerindian prehistory, Teotihuacan, Middle America, Mexico, New
1965 Feb p 70–78 [1004]	World archeology, pre-Columbian metropolis 1967 June p 38-48
ambulatory care, medical care, medicine, physical incapacitation,	'Ames room', visual perception, distance perception, motion perception,
morbidity, mortality rates, hospital care, triage, health insurance,	optical illusion, size perception, illusions as clues to organization of perception 1951 Aug p 50-55
introduction to single-topic issue on medical care 1973 Sept p 22–33	visual perception, personality, aniseikonic lenses, anxiety, 'Hom'
medical technology, medical care, hospital care, morbidity,	phenomenon, emotional relationships condition perception
international comparison of medical care systems	1959 Apr p 56–60
1975 Aug p 17–25	amino-acid deficiencies, dietary requirements, human nutrition,
American Association for the Advancement of Science, see A A A S American Book Exchange, to rebuild science libraries 1948 Nov p 25	metabolism, food and agriculture 1976 Sept p 50-64 amino-acid pairing, genetic code, codon, DNA, RNA, Gamow proposes
American Chemical Society, see A C S	triplet codon 1955 Oct p 70-78
American Geological Institute, Earth sciences federate 1948 Dec p 26	amino-acid separation, 10n exchange, alkalı, desalınatıon
American Indian, see Amerindian	1950 Nov p 48–51
American Institute of Biological Sciences, established 1948 May p 33 American Institute of Physics, launches 'Physics Today'	chromatography, fractionation, paper chromatography 1951 Mar p 35-41
1948 May p 33	amino-acid sequence, protein structure, protein synthesis, peptide bond,
American languages, speech, language, dialects, linguistics, changes in	hydrogen bonds, tertiary structure, nature, diversity and function of
US speech 1950 Jan p 48–51	proteins 1950 June p 32–41 [10]
palatalization, speech, changes in American speech 1955 Aug p 78-83	virology, mutation, tobacco mosaic virus 1955 May p 36–41 1955 July p 74–78 [59]
American Negro, skin color, blood typing, recessive gene, marriage	insulin, sugar metabolism, cell membrane, human physiology, action of
preferences, population genetics, genetic meaning of race	insulin 1958 May p 99–106
1954 Oct p 80–85 public opinion, U S whites, desegregation, attitude survey, racial	insulin, protein structure, ribonuclease, enzyme action, myoglobin, resolution of atomic structure of three molecules
segregation, sociology, longitudinal attitude study	1961 Feb p 81–92 [80]
1956 Dec p 35-39	genetic code, tobacco mosaic virus, RNA nucleotides, protein
cities, racial discrimination, social geography, segregation,	synthesis, mutation, relation of RNA mutations to amino acid
metropolitan segregation 1957 Oct p 33-41 desegregation, racial integration, public opinion, attitude survey, U S	changes 1964 Oct p 46-54 [193] allosteric enzymes, myoglobin, hemoglobin, X-ray diffraction, contour
whites, longitudinal attitude study reported in 1956	maps, folding of four chains, alpha chain, beta chain
1964 July p 16-23 [623]	1964 Nov p 64-76 [196]
racial discrimination, segregation, Puerto Ricans, housing, poverty	lysozyme, X-ray crystallography, enzyme-substrate complex, protein
1965 Aug p 12–19 [626] black power, racial discrimination, group identity, economic power,	folding, three dimensional structure and action of lysozyme
ethnic groups, slavery, social deprivation 1967 Apr p 21~27 [633]	1966 Nov p 78-90 [1055] protein structure, gene protein colinearity, DNA structure, mutation,
ghetto, racial discrimination, unemployment, urban riots, public	gene mapping, base 1967 May p. 80-94 (1074)
opinion, social class, 'riffraff theory' versus 'blocked opportunity' theory 1968 Aug p 15-21 [638]	antibodies, antibody molecule, immunoglobin Bence-Jones proteins
intelligence, race, whites 1Q, heredity, heredity, population genetics.	heavy chain, light chain, antigen-antibody complex 1967 Oct p 81–90 [1083]
science policy, social psychology, twins environment, racial	antibody molecule, myeloma, immunoglobin, antigen binding. Rence
discrimination 1970 Oct p 19–29 [1199] desegregation, racial integration, U S whites, attitude survey, public	Jones proteins, antibody amino-acid sequence determination
opinion, longitudinal attitudes study 1971 Dec. p. 13-19 [673]	1970 Aug p 34-42 [1185] amino-acid substitution, sickle cell disease, malaria anemia, hemoglobin
racial discrimination, prejudice, public opinion, attitude surgey, LLS	1051 A 56 50
whites, segregation, integration, longitudinal attitude study	Croudion, proteins species specificity computer applying and and
American Nuclear Society, convenes 1978 June p 42–49 [707]	physically from allino-acid substitution 1969 full - oc occursor
American Revolution, white pine, North American forests, Royal Navy,	cytochrome C, protein evolution protein structure, respiration, mutation rate, 1 2 billion year record of evolution, ancient protein
King's Broad Arrow, colonial building 1948 June p 48–53	1072 A - 50 50 50 50
	and lay the end, peptide chain, alpha nelix, enzyme catalysis, lock-
	and-key theory, how is a protein made? 1953 Sept p 100-106

algal bloom, Dinoflagellata, marine ecology, acetylcholine, nerve poisons	
1058 Aug = 07_0	
bacteria, symbiosis, blue-green algae, simplest plants, resemblance to	recubilek, cooperative enzymes, control of biochemical reactions
00cteria 1966 June n. 74_8	1 1965 Apr p 36-45 [1008] chemical reaction, chemical kinetics, proton transfer, enzymes,
algae, blue-green bacteria, cyanobacteria, gas vacuoles	catalysis, chemical equilibrium, relaxation methods in chemistry
algebra, mathematics, science lustory, matrix, vector 1964 Sept p 70-7	1969 May p. 30.41
algin, algae, phytoplankton, kelp, food chain, agar 1952 Dec p 15-1'	alloying, mechanical alloying, metallurgy, metal-powder alloying
algorithms, games theory, logic, computer theory, problem solving,	alloys, eutectics, crystal structure, metallurgy, controlled eutectics,
Turing machine 1965 Nov. p. 98–106	whiskers, controlled-cooling magnets 1967 Feb p 86–92
incompleteness theory, mathematical proof, random numbers,	materials technology, metals, crystal structure, grain boundaries, lattice
algorithmic definition of randomness 1975 May p 47-52 computer language, computer programming, hash table, binary scarch	defects, dislocations, electron 'gas', nature of metals
trees 1977 Apr p 63-80	1967 Sept p 90–100
computer science, Koenigsberg bridges, undecidable questions,	fluended to the state of the st
polynomial-time problems, exponential-time problems, efficiency of	crystal structure, dendrites, metal casting, metallurgy, solidification of
algorithms 1978 Jan p 96–109 [395]	metal 1974 Dec p 88–95
scheduling, combinatorial analysis, critical path scheduling, bin- packing, mathematization of efficiency	superconductors, alloy by ultrarapid cooling 1964 Sept p 88
1978 Mar p 124–132 [3001]	superconductors, intense magnetic fields 1970 May p 56 alluvial soils, soil structure, chernozems, podzols, latozols, tundra,
'Alice in Wonderland', mathematics, logic, Carroll, Dodgson, Lewis	agronomy, ecology of soil, soil erosion, the soils of the world and
Carroll (Charles Lutwidge Dodgson), biography	their management 1950 July p. 30–39
1956 Apr p 116-128	
alienation, adolescence, family, racial discrimination, divorce, poverty,	1951 Apr p 18–23
infant mortality, crime, suicide, drug addiction, changes in American family structure 1974 Aug p 53-61 [561]	Alnico, cobalt-rare earth alloys, magnetism, permanent magnetis, magnetic domains, anisotropy 1970 Dec p 92-100
aligned crystals, crystal structure, materials technology, metals, alignment	alopecia areata, white hair 'overnight' 1972 Nov p 54
of crystals for control of mechanical and magnetic properties	alpha clustering, alpha particles, atomic nucleus, elementary particles,
1959 Apr p 125-141	nuclear clustering neutron, nuclear forces, nuclear surface, proton
alkali, 10n exchange, desalination, amino-acid separation 1950 Nov p 48-51	1972 Oct p 100-108 alpha decay, neutrino, elementary particles, neutron decay, beta decay,
alkali bog, quicksand, fluidized sand 1953 June p 97–102	setting trap for detection of theoretical particle 1956 Jan p 58-68
alkali-metal anions, alkali-metal cations, cryptands, electron orbitals,	transurantum elements, isotopes, nuclear stability, beta decay,
solvated electrons, quantum mechanics 1977 July p 92–105 [368]	radioactive decay, 'synthetic' elements, periodic table, the
alkali-metal cations, alkali-metal anions, cryptands, electron orbitals,	'superheavy' elements beyond 103 1969 Apr p 56-67 alpha heli, proteins, amino acids, peptide chain, enzyme catalysis, lock-
solvated electrons, quantum mechanics 1977 July p 92-105 [368] alkaloids, anthropology, medicine, magic, psychoactive drugs, hypnosis	and-key theory, how is a protein made? 1953 Sept p 100–106
psychiatry, lessons from primitive medicine 1948 Sept p 24–27	proteins, polypeptide chain, amino acids, hydrogen bonds, X-ray
plant physiology, morphine, strychnine, 'hemlock', physostigmine,	crystallography 1954 July p 51–59 [31]
caffeine, contine, quinine, cocaine, ricinine, LSD, human toxins in	collagen, proteins, beta chain, polypeptide synthesis, polymers, amino acids, synthesis and architecture of proteins
plant physiology 1959 July p 113–121 [1087] acetylcholine, acetylcholinesterase, nerve gases, nerve poisons, citric-	1957 Sept p 173–184 [7]
acid cycle, toxins, lethal mechanisms at cellular level	amino acids, myoglobin, proteins, X-ray crystallography, 3 D structure
1959 Nov p 76-84	of protein molecule 1961 Dec p 96-11 [121] proposed by Pauling 1951 Aug p 33
hallucinogens, mental health, drug addiction, consciousness alteration,	proposed by Pauling 1951 Aug p 33 alpha keratin, keratin, X-ray diffraction, protein structure, feather keratin
LSD, psychosis, psilocybin, mescaline, effects of LSD 1964 Apr p 29-37 [483]	1969 Aug p 86-96 [1155]
butterfly, larvae, symbiosis, insect repellants, behavioral adaptation,	alpha particles, alpha clustering, atomic nucleus, elementary particles,
plant evolution, mimicry, butterfly-plant association	nuclear clustering neutron, nuclear forces, nuclear surface, proton 1972 Oct p 100-108
1967 June p 104-113 [1076] alkaptonuria, agammaglobulinemia, gene expression, Wilson's disease,	alpha rhythms, electroencephalography, brain waves, medical diagnosis,
congenital anomalies, chemistry of hereditary disease, one gene-one	Fourier analysis, toposcope display, automata theory
enzyme hypothesis 1956 Dec p 126–136	1954 June p 54-63 alpine environment, cushion plant, pinks, lammergeier, Himalayan
all-weather imaging, aerial mapping, aerial photography, airborne radar,	mountain ecology 1961 Oct p 68–78
radar, radar holography, side-looking radar 1977 Oct p 84-95 [386]	Altai Mountains, Scythian culture, Siberia, tombs, refrigerated tombs,
allergic reaction, autosensitivity, poison ivy, dermatitis, rheumatoid	archeology, cloth, leather and wood artifacts preserved by refrigeration 1965 May p 100-109
arthritis multiple sclerosis delayed hypersensitivity	refrigeration 1965 May p 100-109 Altamira, cave art, cave paintings, Paleolithic archeology, sculpture,
antibodies, antigen complement, immune response, lymphocytes virus	Lascaux 1968 Feb p 58–72
entigens, virus disease, autoimmune disease, immune complex	alternating current, electric light, lighting, zinc sulfide, technology of
disease glomerylonenhritis lymphocytic chonomeningitis, serum	electric nower, high-voltage transmission, power transmission,
sickness 19/3 Jan p 22-31 [1203]	hydroelectric power generation, corona discharge, economic
antibodies, antigens, immune response, anaphylactic shock, immunology, lymphocytes 1973 Nov p 54-66 [1283]	advantages of high-voltage transmission 1964 May p 38-47 alternating-gradient synchrotron, 'eightfold way', omega-minus particle,
-Name of the section antiques antihodies, serum sickness,	bubble chamber, particle accelerator, high-energy physics US
hypersensitivity	Proof haven National Laboratory experiment 1964 Oct p 36-45
astituta, hypersensitivity, strong	Altintege, Biblical archeology, Mount Ararat, Urartu, 800 B C culture at
	Noun's tanding product of the produc
and ladar amounts to	to a demotion brown 131. Onecous indians, accommunication accor-
allocation of time, television, content analysis, a critical review by 1951 June p 15-17	mice, hemoglobin, metabolic rate, exercise numan physiology at
-lie-tesis arm mes musclohin hemoglohin X-ray diffraction, amino-acid	ingliantities and technology, ceramics crystal structure, silicates
sequence, contour maps, folding of four chains, alpha chain, beta sequence, contour maps, folding of four chains, alpha chain, beta	heat resistance ionic bonds covalent bonds nature of ceramics
chain 1964 Nov p 64-76 [196]	1967 Ѕері р 112–124

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earthquake distribution, mountain formation, plate tectonics, seismic	ethology, evolution, ritualized behavior, innate behavior, releaser
waves, volcanic activity 1973 Aug p 60–69 [910]	stimulus, evolution of behavioral patterns 1958 Dec p 67-78 [412]
androgens, ACTH, hormone, sexual characteristics, growth, thyroid-	incubator birds, eggs, chicken, fowl, ornithology, hatching eggs in hot
stimulating hormone, follicle-stimulating hormone, prolactin,	places 1959 Aug p 52–58
sumulating normone, tomele-stimulating normone, protecting	comparative psychology, prairie dogs, social behavior, territorial
estrogens, secondary sexual characteristics, human physiology,	behavior, innate behavior, learning behavior, field observation of
endocrine system, chemical integrators of the body	
1957 Mar p 76–88 [1122]	
Andromeda Galaxy, universe expansion, Cepheid variable, Clouds of	ornithology, crow, signal behavior, language of crows
Magellan, galactic yardstick, doubling of yardstick doubles size and	1959 Nov p 119–131
age of the universe 1953 June p 56-66	learning, stress, behavior disorders, stimulation in infancy
galactic rotation 1973 June p 30–36	1960 May p 80–86 [436]
galactic clusters, local clusters, M81 cluster, Virgo cluster	electric fishes, sodium ion potential, electroplaques, neurophysiology,
1977 Nov p 76–98 [390]	synapse, acetylcholine, nerve impulse, bioluminescence
anemia, sickle cell disease, malaria, amino-acid substitution, hemoglobin	1960 Oct p 115–124
1951 Aug p 56–59	ethology, social behavior, gulls, comparative psychology, evolution,
	reconstructing gull family tree from behavior of species
sickle cell disease, hemoglobin S, human evolution, malaria	1960 Dec p 118–130 [456]
hematology, adaptive benefits of sickle-cell anemia	
1956 Aug p 87–94 [1065]	ecological niche, symbiosis, reef ecology, cleaning behavior, behavioral
brain damage, environmental toxins, blood disorders, kidney disorder,	integration of reef ecology 1961 Aug p 42–49 [135]
lead poisoning, nerve disorders 1971 Feb p 15–23 [1211]	behavioral adaptation, ground squirrels, Mojave desert, Lidney
chemotherapy, cyanate, genetic disease, hemoglobin, erythrocyte, sickle	function, thermoregulation, desert adaptation, desert mammals'
cell disease 1975 Apr p 44–50 [1319]	adaptations to heat and aridity 1961 Nov p 107-116
sickle cell disease, chemical basis of hemoglobin mutation	cichlid fish, marine iguana, rattlesnake, fighting behavior, comparative
1957 Aug p 58	psychology, oryx 1961 Dec p 112–122 [470]
anemometer, meteorology, radiosonde, rain gauge, barometer,	evolution, innate behavior, lovebird, sexual behavior, interspecies
hygrometer, instrumentation of meteorology 1951 Dec p 64-70	differentiation of behavior 1962 Jan p 88–98
	bioelectricity, physiological psychology, electrically controlled behavior
anesthesia, pain, cocaine, procaine, surgery, medical research,	1962 Mar p 50–59 [464]
neuropharmacology, pharmacology, psychiatry, research in pain	1902 Wat p 30-39 [404]
suppression 1957 Jan p 70–82	marine biology, fish, schooling behavior, sensory systems for parallel
barbiturates, hypnotics, tranquilizers, sedatives, pharmacology	orientation 1962 June p 128–138 [124]
1958 Jan p 60-64	sharks, attack prevention, sensory systems, feeding behavior
senility hastened 1955 Dec p 54	1962 July p 60–68 [127]
dtssociative anesthesia 1971 June p 56	Phalangida, harvestman, daddy longlegs, Arachnida, natural history
aneurysm, common etiology 1968 Dec p 50	1962 Oct p 119-128 [137]
anger, fear, adrenalin, noradrenalin 1955 May p 74-81 [428]	archer fish, predator-prey relationship, natural history, Toxotes
fear, different adrenalins 1951 Nov p 40	1963 July p 100–108
angiogenesis, avascular tumors, cancer, tumor inhibition, tumor	arena behavior, bowerbirds, sexual behavior, courtship display, releaser
vascularization, tumor angiogenesis factor (TAF)	stimulus, ethology, natural history 1963 Aug p 38-46 [1098]
1976 May p 58-73 [1339]	Antarctica, ornithology, skua, south polar skua 1964 Feb p 94-100
angiotensin, hypertension, atherosclerosis, stress, etiology and care of	chimpanzee, symbolic language, learning, operant conditioning, binary
hypertension 1948 Aug p 44–47	numbers, chimpanzee learning arithmatic 1964 May p 98-106 [484]
hypertension, kidney function, human physiology, isolation of	brain stimulation, neurotransmitters, hormone, drive activation by
	injection of chemicals into rat brain 1964 June p 60–68 [485]
angiotonin, see angiotensin	population control, territorial behavior, reproduction, homeostatic
Anglo-Saxon King, Sutton Hoo, ship burial, a treasure hoard	population controls 1964 Aug p 68–74 [192]
1951 Apr p 24–30	habitat selection, ecological adaptation, heredity, learning field
angular momentum, dust cloud hypothesis, binary stars, photophoresis,	experiments with mice 1964 Oct p 109-116 [195]
gravitational collapse, element abundance, origin of the Earth	Arachnida, false scorpion, natural history, Chelifer canroides
1952 Oct p 53-61 [833]	1966 Mar p 95–100 [1039]
ultracentrifuge, ultra-high speed rotation, magnetic flotation, molecular	sex differences, hypothalamus, testosterone, physiological psychology,
weight determination, 90 million r p s 1961 Apr p 134–147	sex hormones, pituitary hormones, sex differences in rat brain, effect
pulsar, white dwarfs, neutron stars, gravitational collapse, 'lighthouse'	of testosterone 1966 Apr p 84–90 [498]
model proposed 1968 Oct p 25–35	aggression, rats, social behavior, territorial behavior, natural history,
Crab Nebula, neutron stars, pulsar, radio source, stellar evolution,	Rattus rattus, Rattus norvegicus 1967 Jan p. 78–85
gravitational collapse 1971 Jan p 48-60	nervous system, vision, reflex arc, motor neuron, interneuron, small
animal behavior, opossum, marsupial, death-simulation, playing possum	neuron systems as models for study 1967 May p 44-52 [1073]
by opossum and other animals 1950 Jan p 52-55	evolution, fossil tracks, fossil animal tracks, burrows
sexual behavior, courtship display 1950 July p 52-55	1967 Aug p 72–80 [872]
hibernation, metabolic rate, thermoregulation, body temperature	speciation, gulls, evolution, sexual behavior, innate behavior, ethology,
1950 Dec p 18–21	species discrimination, Larus, eye rings 1967 Oct p 94–102 [1084]
problem box, intelligence test 1951 June p 64-68	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons,
stickleback, courtship display, sexual behavior, displacement activity,	canaries, chickens 1968 June p. 64–76 [515]
ethology 1952 Dec p 22–26 [414]	canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche,
curiosity, rhesus monkeys, problem solving, genetic traits	cryptosphere, life under rool s and rooms less
1954 Feb p 70–75	cryptosphere, life under rocks and rotting logs
zoos, captivity 1954 May p 76–80	1968 July p 108-114 [1112]
courtship display, gulls, releaser stimulus, displacement activity,	marine birds, phalarope, sexual behavior, parental care, sex role, hormone
ethology 1954 Nov p 42–46	
and a sale due at sale to	innate behavior, learning, parental care, feeding behavior, sea gull
tawny owl, nocturnal animals, predator-prey relationship	chicks 1969 Dec p 98–106 [1165]
1055 Oct n 88 08	locomotion, herpetology, snake, lateral, rectilinear, concertina and
bowerbirds sexual behavior, courtship display, arena behavior,	sidewinding modes of progression 1970 June p. 82, 06 (1190)
Australian dowerbird, natural history 1056 June p. 49 52	albatioss, evolution, bird flight, sexual behavior, soaring, natural
bird song animal communication, learning innate behavior	1970 No. p. 84 02 (1204)
1056 Ont - 129 129 11451	mollusks, central nervous system, neurophysiology
learning imprinting developmental psychology, effect of early life on	1971 Fab - 69 75 (1919)
later learning 1958 Mar p 81–90 [416]	orological clock, circadian rnythm, circannual rhythm hibernation
- 1750 Mai p 01-50 [416]	animal migration, manic depression 1971 Apr p 72–79 [1219]
	r r [1213]

proteins, polypeptide cliain, hydrogen bonds, X-ray crystallography,	omnlibian material later to the
aipiia iiciix 1054 Tuly n 51 co ta	amphibian metamorphosis, tadpole, frog, thyroid hormone, chemistry of
fossil, bonc, mollusk shells, palcontology, palcobiochemistry	1 4 110 110 110 110 110 110 110 110 110
1056 tules - 02 on the	amphora, Classical archeology, commerce, underwater archeology
1956 July p 83-92 [101 collagen, proteins, beta chain, alpha helix, polypeptide synthesis,	I Roman empire 1054 Nov. = 00 104
polymers, synthesis and architecture to a feet and architecture of the synthesis,	amplification, see amplifiers
polymers, synthesis and architecture of proteins	amplifiers electronics electron tubes community
1957 Scpt p 173-184 [7	rectifiers, electron optics, cathode-ray tube, communication, power,
myoglobin, proteins, X-ray crystallography, alpha helix, 3-D structure	
of protein molecule 1961 Dec. n. 96-11 (12)	thermionic emission, state of the technology 1950 Oct p 30-39
evolution, licmoglobin, myoglobin, molecular evolution, evolutionary	- The state of the
distance measured by amino-acid substitution	circuitry, noise 1959 June p 118–129
	fluid dynamics, switching, Coanda effect, logic gates
1965 May p 110-118 [1012]	1964 Dec. p. 80–88
DNA, protein synthesis, genetic code, mutation, molecular biology,	anaerobic metabolism, ruminants, metabolism, symbiosis, cellulose
triplets, RNA, anticodon, ribosomes, triplets, wobble hypothesis	digestion, fermentation how cowe digest grass 1058 Feb = 24.28
1966 Oct p 55-62 [1052]	animal behavior, cryptobiotic animals, metabolism, suspended
protein synthesis, formylmethionine, ribosome, mRNA, tRNA,	animation, Nematoda, Rotifera, Tardigrada 1971 Dec p 30-36
initiation of protein synthesis 1968 Jan p 36-42 [1092]	ATP, muscle, glycolysis, aerobic metabolism, oxygen debt, lactic acid
insulin, automatic synthesis, protein synthesis, peptide bond, 'solid	
phase' method of synthesis, polystyrene beads	formation, aerobic metabolism, energy mechanisms in muscle
	1972 Mar p 84-91 [1244]
1968 Mar p 56–74 [320]	
left from right, amino acid isomers separated 1949 Nov p 31	bronchospasm, anaphylactic shock, mode of action and hazards of
in Precambrian rock 1968 May p 50	most widely used drug 1963 Nov p 96-108
amino acids synthesized, Miller-Urey experiment 1953 July p 42	morphine, opium, poppy, heroin, codeine, Bentley's compound, drug
ammonia, nitrogen, biological nitrogen fixation, nitrifiers, denitrifiers,	action, search for strong, safe analgesic 1966 Nov p 131-136 [304]
nitrogen cycle, legumes 1953 Mar p 38-42	analog-to-digital conversion, computer, automatic control, solid-state
solvated electrons, radiolysis, ionization, radiation chemistry, sodium,	electronics, digital computer, analogue computer, the universal
alkalı metals 1967 Feb p 76–83	
	machine 1952 Sept p 116–130
ammonia manufacture, biological nitrogen fixation, Haber process,	computer applications, syntactic analysis, computer modeling,
metallo-organic process, nitrogen fixation 1974 Oct p 64-70	computer technology, computer as instrument and as 'actor' in
ammonia maser, atomic clock, cesium clock, maser, zenith tube, mercury	science 1966 Sept p 160–172
mirror, improvements on sidereal time 1957 Feb p 71-82 [225]	analogue computer, computer technology, digital computer, relay
amniocentesis, enzyme deficiency, genetic disease, prenatal genetic	computers, binary arithmetic, logic, automatic control, computer
diagnosis, hemophilia, Down's syndrome, Tay-Sachs disease,	memory, control systems, status of 'mathematical machines'
chromosomal anomalies 1971 Nov p 34-42 [1234]	1949 Apr p 28-39
enzyme deficiency, fat metabolism, genetic disease, Tay-Sachs disease,	computer, automatic control, solid state electronics, analog-to-digital
lipids, lipid-storage diseases, 10 lipid-storage diseases	conversion, digital computer, the universal machine
1973 Aug p 88–97	1952 Sept p 116–130
amoebae, social amoebae, slime mold, Dictyostelium acrasin, role of	ancient instruments, astrolabe, planispheric astrolabe, science history,
	how they did it then 1974 Jan p 96–106
acrasin in cell aggregation 1949 June p 44-47	
cell, cytology, sol-gel reaction, high pressure, effect of high pressure on	analogue storage media, information theory, statistics, thermodynamics,
cellular activity 1958 Oct p 36-43	noise, redundancy, digital storage media, information compression,
cell differentiation, social amoebae, slime mold, Dictyostelium cell	automatic control, information 1952 Sept p 132-148
aggregation, acrasin 1959 Dec p 152-162	analytic geometry, Fermat, Descartes, mathematics history, conic
phagocytosis, cell motility, cytoplasmic streaming, sol-gel reaction,	sections, Euler, mathematics 1949 Jan p 40-45
front contraction theory of amoeboid motion	creativity, mathematical invention, set theory, Fermat's last theorem,
1962 Feb p 112-122 [182]	mnovation in mathematics 1958 Sept p 66-73
social behavior, slime mold, Dictyostelium, chemotaxis	Cartesian geometry, mathematics, philosophy, Descartes, Rene
communication, spatial orientation 1963 Aug p 84-93 [164]	Descartes, biography 1959 Oct p 160-173
acrasın, adrenalın, social amoebae, slime mold, Dictyostelium, cyclic	analytical engine, Babbage, computer, difference engine, digital
AMP 1969 June p 78–91	computer, life and work of Charles Babbage 1952 Apr p 66-72
amorphous metals, glassy metals 1978 Apr p 86	anaphylactic shock, aspirin, inflammation, analgesics, fever, histamine
amorphous polymers, polymer macrostructure, random-coil model,	reaction, bronchospasm, mode of action and hazards of most widely
amorphous polymers, polymers metostracture, random-commodes,	used drug 1963 Nov p 96–108
semicrystalline polymers, synthetic polymers, thermoplastic	antibodies, antigens, allergic reaction, immune response, immunology,
	lymphocytes 1973 Nov p 54-66 [1283]
amorphous semiconductors, switching, glass, memory, threshold switch,	Anatolia, Arzawa, archeology, Hittites 1955 July p 42-46
	Assyrian civilization, commerce, 2000 B C, trade patterns
nonperiodic systems, Ovshinsky devices, quantum mechanics,	1963 Feb p 96-106
semiconductor technology, switching phenomena	Anatolian plateau, Neolithic archeology, Catal Huyuk
1977 May p 36–48 [362]	1964 Apr p 94–104 [620]
Ovshinsky devices 1972 Mar p 40	anatomy, see human anatomy, comparative anatomy and the like
amorphous solid, materials technology, glass fiber, optical glass, ceramics,	anchory, Peru Current, guano, seagulls, El Niño, upwelling
1701 Jan D 72-107	anchovy, Peru Current, guano, scaguns, El vino, aparening
enisted structure, solid-state electronics, X-ray crystallography, metals,	anchovy crisis, El Niño, fishing, upwelling, Peru Current Peruvian
comiconductor, nonmetals, materials technology, electrical	
1907 Sept p 80-89	anchovy disaster, El Niño and overfishing 1973 June p 22–29 [12/3]
and the technology glass supercooling crystal structure, geometry of	anchovy disaster, El Nino and overhiming 1977 July p to ancient instruments, Antikythera, planetary motion, Greek computer,
-tara Auro mbaco alacces 1907 dept p 120 (50	science history, Classical archeology, computer technology, 2,000-
amphetamines, hehavior, encephalitis, hyperactive child, temperament,	science history, Classical archeology, computer rectificity, 2,000-
J	year-old computer 1959 June p 60-67 analogue computer, astrolabe plantspheric astrolabe, science history,
[9/0 Apr p 34-20 [527]	analogue computer, astronabe planispiterie astronabe, science instory,
amphibian, frog color vision, tetina, retinal image-processing, visual	how they did it then 1974 Jan p 96-106 ancient trade, archeology, writing, Elamite culture, Mesopotamian
	culture, Persia Sumer, Iran Tope Yahya
1904 Mai p 110 115	culture, Persia Sumer, fran Tepe Fanya 1971 June p 102–111 [660]
metamorphosis, frog, thyroxin, pituitary gland, hypothalamus,	Andes, anthropology, Paleolithic culture, stone tools, obsidian, El Inga
	site, prehisione man in the Andes 1963 May p 116–128
metamorphosis 1966 May p 76–88 [1042]	Site, premotorio mantita

whaling industry, blue whale, endangered species	s, International	cultural evolution, sociology, multilinear human c	ulture changes 1956 May p 69-80
Whaling Commission Antarctic glacier, Earth, glaciation, chimate, sea lev	1966 Aug p 13–21 el, hydrologic cycle	nonverbal communication, posture, cultural relati	vism
19.	55 Sept p 84-92 [809]	Neanderthal man, human evolution, co-existence	1957 Feb p 122–132
Antarctic Ocean, Antarctica, ocean circulation, An physical oceanography of Antarctic 1962	Sept p 113–128 [860]	Neanderthal man 195	7 Dec p 89–96 [844]
Antarctic Treaty, Antarctica, history of exploration	, I GY, introduction	nonverbal communication, pictograph, Easter Isla	
to a single-topic issue on Antarctica	1962 Sept p 60-63	1 and attended to the state of the sta	1958 June p 61–68
inspection procedures	1963 Nov p 65	human evolution, steatopygia, climate, human mig population, genetic variation, ancient migration	and human diversity
Antarctica, Atka, oceanography, icebreaker, 1 G Y single-topic issue on the planet Earth	1955 Sept p 50–55	1960 \$	Sept p 112-127 [604]
penguin, sexual behavior, behavioral adaptation	, natural history	Paleolithic culture, stone tools, obsidian, Andes, E	
	1957 Dec p 44–51	prehistoric man in the Andes bride price, marriage contracts, Sebei tribe	1963 May p 116–128 1973 July p 74–85
history of exploration, l G Y, Antarctic Treaty, single-topic issue on Antarctica	1962 Sept p 60–63	central-place theory, market networks, People's R	
Earth magnetic field, 'whistlers', upper atmosph		Guatemala, rural markets	1975 May p 66-79
atmosphere-magnetic field-solar wind interac	tion	bison hunting	1971 June p 59
	962 Sept p 74–83 [858]	human evolution, Lake Rudolf skull human evolution, Ethiopian skull	1973 June p 39 1974 Dec p 64
climatology, solar radiation, atmospheric circula Antarctica in Earth's heat budget	962 Sept p 84–94 [859]	human evolution	1976 Oct p 57
ocean circulation, Antarctic convergence, Antar	ctic Ocean, physical	North American prehistory	1977 June p 61
oceanography of Antarctic 1962	2 Sept p 113–128 [860]	see also social anthropology	1050 4 = 20
glaciation, Antarctic continental glacier, ice, str.	atigraphy, volume of ice 2 Sept p 132–146 [861]	anti-histamines, puffing reduced by F D.A anti-scientific attitudes, fluoridation, public opinion	1950 Aug p 30
in glaciers ecological implications 1962 geology, glaciation, seismology, seismic mappin	g. Antarctic land mass.		55 Feb p 35–39 [453]
part continent-part archipelago	1962 Sept p 151-166	antiballistic missile, see ABM	
fossil fauna, fossil flora, geology, paleontology,	Glossoptens, coal,	antibiotic hazard, from animal feeding	1952 Jan p 38
continental drift evidence 196 oceanography, marine biology, food chain, krill	2 Sept p 168–184 [863]	antibiotic resistance, hospital infections, staphylococ classical aseptic routines	1959 Jan p 41–45
Antarctic convergence, biological province of	f Antarctic convergence	antibiotics, staphylococcus septicemia, toxicology	
	1962 Sept p 186-210	phosphorylation, cause of death from staphyloc	
fauna, flora, lichens, blue-green algae, ecology,	Antarctica terrestrial	bacteria, infectious disease, drug resistance, gene i	1968 Feb p 84-94
life 196 animal behavior, ornithology, skua, south polai	2 Sept p 212-230 [865]		Apr p 18–27 [1269]
anniai benavioi, orinthology, sada, south point	1964 Feb p 94-100	antibiotics, aureomycin, virus disease, rickettsial dise	
penguin, animal migration, animal navigation,	Adelie penguin	infection, 'broad spectrum' antibiotic	1949 Apr p 18-23
navigation system	1966 Oct p 104–113	infectious disease, toxicity, bacterial resistance, vii new medical technology	rus disease, status of 1949 Aug p 26–35
seal, directional orientation, breathing, breathin 1969	Aug p 100–106 [1156]	biochemistry, enzymes, virus, citric-acid cycle, me	
ice perils Atka	1955 Apr p 52	enzymes, sulfa drugs, science, biochemistry 190	0-1950
IGY	1956 Jan p 45	penicillin, streptomycin, aureomycin, chloramphe	1950 Sept p 62–68
IGY IGY	1957 July p 65 1957 Oct p 58	disease, the antibiotic revolution	1952 Apr p 49–57
weapons test fallout	1957 Nov p 70	plant disease, rot, blight, smut, wilt disease, mold,	
I GY results reviewed	1958 Mar p 54	mentary cumthosis standards and a large	1955 June p 82–91
1 G Y 1 G Y	1958 May p 56 1958 Aug p 49	protein synthesis, streptomycin, genetic code, ribo mutation, 'misreadings' induced by antibiotic a	
Special Committee for Antarctic Research	1958 Nov p 53	ribosomes	1966 Apr p 102-109
IGY results	1959 Feb p 59	bacteria, drug resistance, mutation, DNA R-facto	
reserved for science by treaty	1960 Jan p 70 1960 Mar p 86	resistance, multiple resistance	1967 Dec p 19–27
sub-glacial topography results of scientific exploration	1960 Oct p 83	staphylococcus septicemia, antibiotic resistance, to phosphorylation, cause of death from staphyloc	occal infection
research ships described	1961 May p 80		1968 Feb p 84-94
US National Science Foundation research pr antelope, animal husbandry, giraffe, elephant, bu		chemotherapy, drug effects, liver function, pharm hormone, medical care, herbial medicine	acology, vaccine,
hippopotamus, wildlife husbandry in Africa	1960 Nov p 123–134	actinomycin, DNA-actinomycin binding, mRNA	1973 Sept p 102–112
desert adaptation, thermoregulation, water dri	inking, evaporation,	synthesis 1974	Aug p 82–91 [1303]
eland and oryx, survival without drinking antennae, artificial satellite, orbital motion, inter	1969 Jan p 88–95	mutagenic streptomycin show synergy	1949 Aug p 24
astronomy, tracking station, satellite tracking	ng 1958 Jan p 23–29	plant-growth stimulants	1950 Sept p 46 1952 Oct p 48
anthocyanins, leaf color, chlorophyll, carotene, p	orimary synthesis of	misuse, livestock feed pens	1966 Oct p 44
aromatic compounds carotenoids, flower pigments, pigment synthe	1950 Oct p 40–43	antibodies, allergy, immune reaction, antigens, serun	
biochemistry and genetics of flower pigmen	its	hypersensitivity leukocyte, infection, phagocytosis, 'the first line of	1948 July p 26–29 f defense'
	1964 June p 84-92 [186]	19	951 Feb p 48-52 [51]
anthracene, crystallography, photosynthesis, ele plants, organic crystals, conjugated aromat	ctron transfer, exciton,	tertilization, antigen-antibody reaction, fertilizin	
	1967 Jan p 86-97	immunity, how antibodies are made, self-marker h	54 June p 70–75 [43]
anthropoid, primate evolution, fossil primates, h of man			1954 Nov n 74 79
anthropology, medicine, magic, alkaloids, neveh	1964 July p 50–62 [622] loactive drugs, hypnosis	bacterial infection, blood proteins, gammaglobulii grafts, agammaglobulinemia, hereditary immun	n immunologi ticcia
psychiatry, lessons from primitive medicine	e 1948 Sent n 2427		1057 July m 02 104
human evolution, culture as concept, science,	1050 Copt p 87 04	antigens, antigen-antibody reaction gammaglobu	lın, antıbody-antıgen
Kuanyama Ambo, social controls murder, m	ionarchy	specificity electrophoresis, immunoelectrophoresis, antigens	1057 Ont - 00 106
Hallowcen, Druid holiday	1950 Oct p 52-55	proteins 1960	separation of Mar p 130-140 [84]
	1951 Oct p 62–66	1700	P 120-140 [04]

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courtship display, turkeys, pecking order, sexual behavior, lek	actial plankton change deserved
behavior, Welder Wildlife Refuge 1971 June p. 113 119	acrial plankton, species dispersion, insect physiology, agricultural pest, entomology, wind-borne dispersal of species 1963 Dec p 132-138
cryptoblotic nnimals, metabolism, anaerobic metabolism, suspended	animal navigation, turtles, telemetry, served belonger p. 132–138
animation, Nematoda, Rotifera, Tardigrada 1971 Dec p 30-36 ducks, imprinting, auditory interaction 1972 Aug p. 24-31 [546	Chelonia mydas, green turtle 1 400 mile in mile
ducks, imprinting, auditory interaction 1972 Aug p. 24-31 [546 developmental psychology, homing behavior, kittens, learning, suckling	1965 May n 78_86 (1010)
1972 Dec p 18-25 [552	Denguin, animal naturation, Antaration, Additional
escape response, neurophysiology, toad, visual perception, visually	1 System 1966 Oct p. 104-113
guided behavior 1974 Mar n 34-42 [1703]	polar bears, telemetry, satellite, Arctic, satellite tracking of migratory
population cycles, population control, lemnings	animals 1968 Feb p 108–116 [1102] animal behavior, biological clock, circadian rhythm, circannual
1974 June p 38–46 [1296]	rhythm, hibernation, manic depression 1971 Apr p 72–79 [1219]
birds, finches, mimiery, parasitism, sexual behavior, widow birds	grassland, grazing animals, grazing ecosystem, sayanna topography
lions, symbiosis, predator-prey relationship 1974 Oct p 92-98	Serengeti National Park, Tanzania 1971 July p. 86-93 [1228]
lions, symbiosis, predator-prey relationship 1975 May p 54-65 aerodynamics, bird flight, insect flight, clap-fling mechanism, flip	animal navigation, sonar, bat sonar, ultrasonic signal, bat navigation
mechanism, hovering flight, lift generation	demonstrated in laboratory 1950 Aug p 52-55 bee, crustacea, solar navigation 1954 Oct p 74-78
1975 Nov p 80-87 (1331)	polarized light, Nichol prism, dichroic material, horseshoe crab
mantis shrimps, marine life, stomatopods 1976 Jan p 80-89	1955 July p 88–94
predator-prey relationship, spiders, Arachnida, social spiders	salmon, fish migration, homing behavior, chemotaxis
1976 Mar p 100-106	1955 Aug p 72–75
crocodile, Nile crocodile, parental care, reptile 1976 Apr. p 114-124 hopping energetics, kangaroos, mammalian evolution, marsupial	bird navigation, spatial orientation, bird migration, celestial navigation
1977 Aug p 78–89 [1366]	by birds 1958 Aug p 42-47 [133] bioluminescence, electric fishes, electric field 1963 Mar p 50-59
milk hijacking by British songbirds 1950 June p 30	bioluminescence, electric fishes, electric field 1963 Mar p 50-59 animal migration, turtles, telemetry, sexual behavior, nesting, Cheloma
hedgehog's egg preferences 1952 Apr p 44	mydas, green turtle, 1,400-mile journey 1965 May p 78-86 [1010]
crow-calls, bird semantics 1956 Aug p 52	penguin, animal migration, Antarctica, Adelie penguin navigation
see also insect behavior, primate behavior, animal navigation and the	system 1966 Oct p 104-113
like	insect behavior, locust, nervous system, insect flight, response to
animal communication, insect behavior, social insect, bee dances, directional orientation, 'language of the bees'	stimuli, schistocerca gregaria 1971 Aug p 74~81 [1231]
1948 Aug p 18–21 [21]	chemotaxis, herring, shad migration, homing behavior, temperature as migration control 1973 Mar p 92-98 [1268]
bee dances, more on the 'language of the bees' 1953 July p 60-64	insect behavior, ants, bee, insect eye, polarized light
fish communication, crustacea, whale, porpoises, marine biology,	1976 July p 106–115 [1342]
animal sounds in the sea 1956 Apr p 93–102	porpoise navigation, by sonar? 1953 May p 60
bird song, learning, innate behavior, animal behavior 1956 Oct p 128-138 [145]	animal psychology, see also comparative psychology animal sacrifice, oxtail omen experimentally demonstrated
ants, insect behavior, ant 'guests', comensalism, parasitism,	1966 Fcb p 54
pheromones 1971 Mar p 86–93 [1213]	animal toxins, nerve conduction block, tetrodotoxin, saxitoxin, poisons,
chemotaxis, pheromones, bullheads, catfish	puffer fish, California newt 1967 Aug p 60-71 [1080]
1971 May p 98–108 (1222)	animal vectors, encephalitis, virus disease, influenza virus 1949 Sept p 18-21
ape language, chimpanzee learning, Sara learns grammar to 'read' 1972 Oct p 92-99 [549]	brain disease, scrapie, kuru, Chediak-Higashi syndrome, virus disease,
bird song, bell shrike, bird duets 1973 Aug p 70-79 [1279]	multiple sclerosis 1967 Jan p 110-116
behavioral adaptation, firefly, bioluminescence, insect behavior,	animals, Audubon, animals by John James Audubon 1952 Jan p 64-65
synchronous flashing of fireflies 1976 May p 74-85	anionic detergent, synthetic detergents, cationic detergent, surfactant, nature and action of synthetic detergents 1951 Oct p 26-30
brown rat, rats 1977 May p 106–116 [577]	nature and action of synthetic detergents 1951 Oct p 26-30 aniseikonic lenses, visual perception, 'Ames room', personality, anxiety,
stereotyped dances of bees 1957 Mar p 70 insect behavior, signal dance of the blowfly 1957 May p 72	'Hom' phenomenon, emotional relationships condition perception
ornithology, Lanarius erythrogaster song 1963 May p 80	1959 Apr p 56-60
insect behavior, cricket song, mole cricket 1972 Feb p 44	anisotropy, cobalt-rare earth alloys, magnetism, permanent magnets,
animal domestication, agricultural history, archeology, plant	magnetic domains, Alnico 1970 Dec p 92-100 Annelida, feather duster worm, lugworm, biological clock, circadian
domestication, food and agriculture 1976 Sept p 88-97	rhythm, marine worm 1959 June p 132–142
animal electricity, Galvani, voltaic pile, a major discovery in physics as well as biology 1950 Feb p 40-43	anomalous diffusion, magnetic field, plasma instability, thermonuclear
animal husbandry cattle dairying Zebu cattle, European cattle, selective	reaction, fusion reactor, magnetic bottle, nuclear power, leakage of plasma 1967 July p 76-88
stock breeding 1958 June p 31–39	plasma 1967 July p 76-88 'anomalous' water, 'biological' water, blood, hemoglobin, water,
antelope, giraffe, elephant, buffalo, rhinoceros, hippopotamus, wildlife	membrane permeability, osmosis, erythrocyte, van 't Hoff law
agricultural technology poultry production, food production, chicken,	1971 Feb p 88–96 [1213]
aggs 1) S chicken factories 1900 July p 30-04	Anopheles mosquito, tropical medicine, malaria, Plasmodium, epidemiology, W H O malaria eradication 1962 May p 86-96
water buffalo, domestic animals, agricultural water buffalo as draft and	anoxia, epidemiology, stress, pregnancy, Down's syndrome, trisomy 21,
'beel' animal 1967 Dec p 118-125 [1088] Yest Proposition of the subsistence herding, Uganda 1969 Feb p 76-89	etiology of Down's syndrome 1952 Feb p 60–66
Karimojong, cattle, subsistence lierding, Uganda 1969 Feb p 76-89 mules, horse, donkeys, genetics and natural history of mule	ant 'guests', ants, insect behavior, animal communication, comensalism,
1970 Dec p 102–109 [1208]	parasitism, pheromones 1971 Mar p 86–93 [1213] Antarctic climate, no warmer 1953 Jan p 34
ecosystem, energy cycle, agricultural system, power, New Guinea,	Aptarctic continental glacier, Antarctica, glaciation, ice, stratigraphy,
tropical agriculture 19/1 Sept p 110-132 [000]	volume of ice in glaciers ecological implications
dwarf chickens 1973 June p 40	1962 Sept p 132-146 [861]
5 set selected species in 2005	Antarctic convergence, food chain, plankton, krill, whalc, Euphausia
wild-domestic hybrids	Aniarctica, ocean circulation, Antarctic Ocean, physical oceanography
animal migration, gray whale, whale, extinction 1955 Jan p 02-00	1904 SCDL D 113-128 18001
mouse, population control, food supply	Antarctica, oceanography, marine biology, food chain krill, bluc whale, ecology, biological province of Antarctic convergence
hridge continental shell, glaciation, wisconsin glaciation, and	whale, ecology, biological province of Amarene convergence
plant migration, Asia-North America 1962 Jan p 112-123	

	1972 July p 14–25 [345]	aquatic insect, insect eggshell, respiration, ada	
antivivisection, scientists sue Hearst	1949 Sept p 26	selective permeability of insect surface tension, water-strider, backswimme	1970 Aug p 84-91 [1187]
loses in Baltimore	1950 Feb p 27 1952 Apr p 40	springtail, insects of the water surface	1978 Apr p 134–142 [1387]
animals from the pound Hearst settles libel suit	1953 July p 46	aquatic life, thermal pollution, nuclear power,	industrial cooling, water
US legislation	1963 June p 70	pollution, cooling towers, waste heat	1969 Mar p 18-27 [1135]
laboratory animals	1966 Mar p 55	see also marine life	
judicial ruling on 'justifiable pain'	1966 June p 56	aqueducts, ground water, irrigation, tunneling	
US Federal legislation on animal experimen	tation 1966 Nov p 65	3,00 years old, still in use	1968 Apr p 94–105
antler, evolution, horn, osteogenesis, bone, kera	itin, ungulates, differences	Roman technology, siphons, water-supply s	1978 May p 154–161 [3009]
	069 Apr p 114–122 [1139]	Arabia, irrigation, trade, Near East, frankince	
ants, insect behavior, social insect, army ant, coreproduction, feedback, pheromones, trople	hallavie natural history	archeology, cultures of southern Arabia	
philosophy of science, anthropomorphism	1948 June p 16–23	arachnid, spiders, spider webs, evolution, orb	web 1960 Apr p 114-124
amber, insect evolution, insect census, insects		Arachnida, Phalangida, harvestman, daddy lo	
amber, mocet evolution, mocet consus, mocet	1951 Nov p 56-61 [838]	natural history	1962 Oct p 119-128 [137]
insect behavior, animal communication, ant	'guests', comensalism,	false scorpion, natural history, animal beha	
parasitism, pheromones	1971 Mar p 86–93 [1213]	11.1	1966 Mar p 95–100 [1039]
insect behavior, army ant, social insect, retro		anımal behavior, predator-prey relationship	1976 Mar p 100–106
of T C Schneirla	1972 Nov p 70–79 [550]	Arawak Indians, earthworks, flood plain, agric	-
social insect, parasitism, pheromones, insect	1975 June p 32–36 [1323]	fields, New World archeology	1967 July p 92–100
insect behavior, bee, insect eye, animal navig		archeological dating, radiocarbon dating, pale	
nisect behavior, bee, nisect eye, annua navig	976 July p 106–115 [1342]	analysis	1952 Feb p 24-28
insect behavior, pheromones, social insect, w		carbon 14 dating, European prehistory, der	
1	977 Dec p 146-154 [1373]		1971 Oct p 63-72 [672]
insect behavior, pheromone, raider ants	1971 July p 45	clocks from physics	1976 Mar p 60D
anxiety, visual perception, 'Ames room', perso	nality, aniseikonic lenses,	archeological excavation, Phrygian civilization	
'Honi' phenomenon, emotional relationsh	1959 Apr p 56–60	B C, preclassical Greek link with East Lydian civilization, Croesus, Sardis, 6th cer	1959 July p 100–109
percondity factor analysis	1963 Mar p 96–104 [475]	Lydian civinzation, Crocsus, Buildis, oth Cor	1961 June p 124–135
personality, factor analysis polygraph, lying, psychosomatic illness, guil		archeology, disease, morbidity, surgery, record	
skin temperature, 'lie detector' mis-named	1 1967 Jan p 25-31 [503]	ancients	1949 Jan p 52-55
lactate induction	1968 Feb p 54	peat bog, weapons deposits, organic relics,	
anxiety neurosis, lactic acidosis, adrenalin, bio		V.1 D. II. 1	1953 Oct p 84–88
	1969 Feb p 69–75 [521]	Mohenjo-Daro, Harappan civilization, Ind	•
ape language, animal communication, chimpa	1972 Oct p 92–99 [549]	Arzawa, Anatolia, Hittites	1953 Nov p 42-48 1955 July p 42-46
grammar to 'read' apes, primate evolution, hominoid, fossil prim	nates, man-anes, Favum.	Nemrud Dagh, burial site, funerary monun	
Aegyptopithecus, Oligocene ancestor of l		Antiochus I	1956 July p 38–44
	1967 Dec p 28-35 [636]	Sumer, cuneiform script, law code, 3000 B	C to 1500 B C, Ur, Nippur
fossil primates, human evolution, populatio	n genetics, genetic variation		1957 Oct p 70-83
	1972 Jan p 94–103 [676]	Scythian culture, Siberia, tombs, refrigerate	
aphasla, brain damage, Broca's area, language	e, speech disorders 1972 Apr p 76–83 [1246]	cloth, leather and wood artifacts preserve	1965 May p 100–109
aphids, sap circulation, phloem, xylem, trees,	use of aphids to measure	coins, statistics, numismatics, Taxila hoard,	
forces in sap flow	1963 Mar p 132–142 [154]	,	1966 Feb p 102-111
aphrodisiac, para chlorophenylalaline	1970 Feb p 44	Harappan civilization, Indus valley, Moher	
	1955 Nov p 82-89 [116]	demise	1966 May p 92-100
aplysia, neurones, behavior, learning, memory	y, synapse, heterosynaptic	ancient trade, writing, Elamite culture, Mes	sopotamian culture, Persia,
facilitation, memory and learning at nerv	ve-cell level 1970 July p 57–70 [1182]	Sumer, Iran, Tepe Yahya agncultural history, animal domestication,	19/1 June p 102–111 [660]
Apollo 11 landing site, Lunar Orbiter V photo		and agriculture	1976 Sept p 88–97
Apollo 12, lunar-rock analysis, lunar sample	12013 1971 Jan p 44	Celtic Britain, Celtic culture, Gussage site	1977 Dec p 156–159 17021
Apollo project, laser reflection, moon, orbital	motion, lunar-ranging	design of Her-Neit tomb, Egypt	1956 July p 50
experiment, corner reflector, Earth-Moo		flint tool deposit in Negev	1956 Sept p 116
moon meteorites lungs and an all at a second	1970 Mar p 38-49	Linear A script deciphered	1957 Oct p 58
moon, meteorites, lunar soil, regolith, struc	1970 Aug p 14–23	hoax of Kensington Stone in mining camp	1958 Dec p 64
lunar evolution, lunar magnetism, magneto	ometers on moon, space	Scotland, 8th c A D metalwork	1959 July p 72 1960 Feb p 74
exploration	1971 Aug n 62-73	Aswan High Dam emergency	1960 May p 98
lunar evolution, lunar rocks, space explora	tion 1971 Oct p 48-58	3000 B C Asia-South America link	1962 Apr p 80
Apollo samples, carbon chemistry, moon, cos		hunter-gatherer village Euphrates	1966 May p 53
apparent distance theory, visual perception, r	1972 Oct p 80–90	Britain, looting of sites early seafarers, Franchthi cave	1972 May p 54
psychology, explanation of a familiar ill	usion	British graffiti on Hadrian's Wall	1973 Mar p 48
	1962 Iuly n 120_130 [462]	rehabilitation of Glozel find	1975 Jan p 52 1975 Feb p 41
apparent movement, visual perception, optical	al illusion, illusion of	China, Huang Ti tomb	1975 Sept p 54
movement, motion perception appetite, obesity, human nutrition, hunger, n	1964 Oct 5 98_106 [487]	wheel in New World	1975 Oct p 54
physiological mechanisms of overeating	1956 Nov. p. 108-116	oldest bronze	1976 Sept p 70
applied mathematics, mathematics, introduct	tion to single-topic issue on	origins of Iron Age see also New World archeology, underwater	1077 May 21
maticitatics	1064 5000 0 40 40	reneulcan culture. Cochise culture and t	he lile
applied science, invention creativity, industry	nal research solid state	arener lish, predator-prey relationship, anima	l behavior, natural bieton
physics, Bell Laboratories solid-state pl aquaculture, fislieries, proteins, food, tilapia	nysics 1958 Sept p 116–130	TOXOLES	1062 Tules 100 100
, cood, thapia	1963 May p 143–152	archery, war, sling, accuracy, range and lethal	ity of sling
			1973 Oct. p 34-42

choriomeningitis, serum sickness

antigens, protein synthesis, immunology, immune response, mutation,	antigen variation, disasse moderal base
sciection intoly of imminutely 1961 fan a 50 67 170	antigen variation, disease, medical history, influenza virus, encephalitis,
antigens, immune response, hypersensitivity, phagocytosis	the disease, animal vectors, frong Rong Hu, swine Hu
initiammatory response, leukocyte, allergy thymus gland lymphatic	1977 Dec p 88-106 [1375] antigens, allergy, immune reaction, antibodies, serum sickness,
system, cellular immunity 1964 Feb. p. 58-64	
thymus, lymphatic system, immune system, lymphocytes, thymus	
implant in mouse, humoral factor 1964 July p. 66-7	antibodies, antigen-antibody reaction, gammaglobulin, antibody- antigen specificity 1957 Oct. p. 90-106
amino-acid sequence, antibody molecule, immunoglobin, Rence-Jones	
proteins, licavy chain, light chain, antigen-antibody complex	electrophoresis, immunoelectrophoresis, antibodies, separation of
1967 Oct p 81–90 [1083]	
antigen complement, immune response, lymphocytes, virus antigens,	, randology, minute response,
virus discase, autoimmune disease, allergie reaction, immune-	mutation, selection theory of immunity 1961 Jan p 58-67 [78]
complex disease, glomerulonephritis, lymphocytic choriomeningitis,	immune response, antibodies, hypersensitivity, phagocytosis,
serum sickness 1973 Jan p 22–31 [1263]	inflammatory response, leukocyte, allergy, thymus gland, lymphatic
antigens, allergic reaction, immune response, anaphylactic shock,	
immunology, lymphocytes 1973 Nov p 54-66 [1283]	antibody molecule, B-cells, immune system, lymphatic system,
bursa, cell differentiation, humoral immunity, B-cells, T-cells, immune	
system, lymphocytes, thymus 1974 Nov p 58–72 [1306]	antibodies, allergic reaction, immune response, anaphylactic shock,
cell membrane, histocomptability, antigens, immune response,	
immunoglobin, lymphocytes, B-cells, T-cells	antibodies, cell membrane, histocomptability, immune response,
	ımmunoglobin, lymphocytes, B-cells, T-cells
1976 May p 30-39 [1338] antigens, active site, immune response, lock-and-key theory,	15/0 1/14/ p 50 55 (1550)
immunoglobin, Bence-Jones proteins, Fab fragments, Fc unit	antibodies, active site, immune response, lock-and-key theory,
	immunoglobin, Bence-Jones proteins, Fab fragments, Fc unit
1977 Jan p 50–59 [1350]	1977 Jan p 50–59 [1350]
cancer, cell-surface antigens, cancer immunology, immunopotentiators,	cell-surface antigens, graft rejection, histocompatability, immune
immune response, tumor-specific antigens, leukemia, transplantation	response, H-2 antigens, HLA antigens 1977 Oct p 96–107 [1369]
antigens 1977 May p 62–79 [1358]	histocompatibility, HLA-associated diseases 1978 Jan p 64
hepatitis A, hepatitis B, tranfusion hepatitis, viral hepatitis, Australian	antigravity, time reversal, CPT symmetry, antimatter, probability,
antigen (B), viral structure, viral disease 1977 July p 44-52 [1365]	philosophy of science 1967 Jan p 98–108
architecture of antibodies 1958 Nov p 58	antihistamines, best-selling patent medicines 1950 May p 28
thymus in antibody-production 1962 Apr p 82	Antikythera, planetary motion, Greek computer, ancient instruments,
antibody molecule, amino-acid sequence, antibodies, immunoglobin,	science history, Classical archeology, computer technology, 2,000-
Bence-Jones proteins, heavy chain, light chain, antigen-antibody	year-old computer 1959 June p 60-67
complex 1967 Oct p 81–90 [1083]	astronomical calculator circa 1 B C 1959 Apr p 62
myeloma, immunoglobin, antigen binding, Bence-Jones proteins,	gear train reconstructed 1974 Apr p 50
amino-acid sequence, antibody amino-acid sequence determination	antimatter, antiproton, positron, proton, Beyatron, high energy physics, postulation and discovery of antiproton 1956 June p 37-41 [244]
1970 Aug p 34–42 [1185]	postulation and discovery of antiproton 1956 June p 37-41 [244] high-energy physics, antiproton, antineutron, Bevatron, cosmology,
antigens, B-cells, immune system, lymphatic system, lymphocytes, T-	'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-39
cells 1973 July p 52–60 [1276]	symmetry, elementary particles, 'weak' force, parity, particle
first electron micrograph 1960 Apr p 85	interaction, recognition of 'fourth force' 1959 Mar p 72-84 [247]
antibody persistence, vaccine, poliomyelitis virus, epidemiology 1955 Apr p 42-44	atom, Pauli, exclusion principle, theoretical physics, quantum
	mechanics, structure of atoms and nuclei 1959 July p 74-86 [264]
antibody production, thymus, immunology, lymphocytes, DNA,	antigravity, time reversal, CPT symmetry, probability, philosophy of
autoimmune disease, thymus role in producing antibodies 1962 Nov p 50–57 [138]	science 1967 Jan p 98–108
antigen-antibody reaction, lymphocytes, RNA synthesis, immune	Leidenfrost phenomenon, Zeeman effect, Klein theory, high energy
response, clonal selection theory 1964 Dec p 106-115 [199]	physics, cosmology, high-energy physics and cosmology
anticoagulant therapy, blood clotting, Dicumarol, thrombus	1967 Apr p 106–114 [311]
1951 Mar p 18–21	g factor, electron, magnetic moment, electron spin, positron, magnetic
anticodon, amino acids, DNA, protein synthesis, genetic code, mutation,	bottle 1968 Jan p 72-85
molecular biology, triplets, RNA, ribosomes, triplets, wobble	high energy physics, colliding beam accelerator, electron-positron
hypothesis 1966 Oct p 55–62 [1052]	annihilation, proton, parton model, quantum electrodynamics
anticyclones, wind, meteorology, atmospheric circulation, cyclone, source	1973 Oct p 104-113
of prevailing winds 1956 Dec p 40-45 [841]	electron-positron annihilation, J particle, psi particle, charm, color,
antifungal agent, from fungus 1953 Apr p 52	quark, high-energy physics, storage rings, virtual particles
antigen-antibody reaction, some bonds, covalent bonds, hydrogen bonds,	1975 June p 50-62 crystal structure, gamma radiation, gravitational interaction, positron
Van der Waals force, long-range forces, chemical bond, proposed	probes, solid state physics, scintigraph 1975 July p 34–42
intermolecular long-range force 1948 Oct p 14-17	antineutron demonstrated 1956 Nov p 64
molecular biology, physical chemistry, interdisciplinary collaboration,	beta decay, bias for positive 1966 Aug p 40
collaboration of G. Readle and L. Pauling 1949 May p. 10-21	CERN experiment upholds charge conjugation symmetry
virus disease, influenza virus, bacteriophage, poliomyelitis virus,	1966 Nov p 64
bacteriophage, immunity, infection, host-specificity, viruses in infection and in the laboratory 1951 May p 43-51	antineutron, antimatter, high-energy physics, antiproion, Bevatron
infection and in the laboratory 1951 May p 43-51	cosmology 'universon', 'cosmon', 'anticosmon' 1958 Apr p 34–39
species specificity, speciation, determination of 'blood relationships' 1951 July p 59-63	antinomy paradox, mathematical logic, logic, barber paradox,
	undecidable questions, Godel's proof, Grelling's paradox,
fertilization, antibodies, fertilizin 1954 June p 70–75 [43] antibodies, antigens, gammaglobulin, antibody-antigen specificity	Epimenides' paradox, Zeno's paradox, paradox and foundations of
antibodies, antigens, gammagioudini, antibody antigens population 1957 Oct p 99–106	logic 1962 Apr p 84–96
and had a production lymphocytes RNA synthesis, immune response,	antiproton, positron, proton, Bevatron, antimatter, high-energy physics,
	postulation and discovery of antiproton 1956 June p 37-41 [244] antimatier, high energy physics antineutron, Bevatron, cosmology,
histing antibody molecule myeloma immunoglobin, Bence-	'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-39
	experiment designed 1949 Dec p 30
determination 1970 Aug p 34-42 [1999]	Direc substantiated 1955 Dec p 46
antibodies immine response, lymphocyles, virus	found theore substantialed 1934 July D 44
antigone virtue disease anioimmine disease, ancieto reassista	
immune-complex disease, glomerulonephritis, lymphocy in	assured destruction SLBM, sonar, acoustic detection
chornomeningitis, serum sickness 1973 Jan p 22-31 [1203]	

atomic test ban, national security, atomic bomb test, mi	ssile policy,	aromatic compounds, lignin, wood, paper, chemical identity of elusive
	t p 27–35 [319]	lignin 1958 Oct p 104–113
radar blackout, atomic warfare, counterforce strategy, A	ABM, ICBM,	aromatic hydrocarbons, heat resistance, polymers, materials technology,
US ABM system capabilities and limitations 196	8 Mar p 21-3I	plastics, high-temperature-resistant plastics 1969 July p 96-105
ABM, MIRV, SALT, deterrence, ICBM, counterforce s	trategy,	benzene derivatives, molecular structure, aromaticity
dynamics, instability of arms race 1969 Ap	r p 15–25 [642]	1972 Aug p 32–40
ABM, ICBM, MIRV, SLBM, mutual assured destruction		molecular structure, pyrogenesis, polycyclic aromatic compunds
strategy, strategic balance, national security	,	1976 Mar p 34-45
1969 Au	g p 17–29 [330]	aromaticity, aromatic hydrocarbons, benzene derivatives, molecular
arms production, military expenditures, arms trade, eco		structure 1972 Aug p 32–40
development, the world cost of the arms race		ARPANET: Advanced Research Projects Agency computer Network
	t p 21–27 [650]	ARPANET, computer technology, computer inter-communication
atomic weapons, SALT, MIRV, counterforce strategy,		1972 June p 52
destruction, MIRV, as key to SALT negotiations	matam assured	'arrested vision', vision, learning, experience, sensory deprivation, role of
	n p 19–29 [654]	environment experience in normal development
bacteria, chemical weapons, biological weapons, Vietna		1950 July p 16–19 [408]
virus disease, rickettsiae, tear gas, herbicide, chemica	ili war, co gas,	arrow of time, entropy, time reversal, information theory, hierarchy of
	p 15–25 [1176]	structures, macroscopic information increase 1975 Dec p 56–69
warfare 1970 May ABM systems, ICBM, MIRV, atomic weapons, SALT,		arroyo, climatic change, flash floods 1952 Dec p 70–76
ABIN Systems, ICBIN, MIRV, atomic weapons, SALI,	atoniic iest oan,	art, schizophrenia, psychoanalysis, a case study 1952 Apr p 30–34
strategic weapons, prospects for freeze on numbers a		Escher's prints, optical illusion, perception of pictures, psychology,
	71 Jan p 15–25	visual perception 1974 July p 90–104 [560]
mussile submarines, SLBM, MIRV, Polaris, Trident, Po	seluon hussile	
	ne p 15–27 [344]	no 'natural' palette, Roy G Biv 1954 Oct p 50
bombers, SALT, AWACS, strategic weapons, military		art restoration, painting, X-ray, microchemistry, spectroscopy, science in
	73 Aug p 11-19	the art museum 1952 July p 22–27
ABM, ICBM, MIRV, atomic armaments, counterforce		arteries, atherosclerosis, cardiovascular disease, human nutrition,
	73 Nov p 18–27	epidemiology, cholesterol, coronary occlusion, diet, lipids, plaque,
mutual assured destruction, counterforce strategy, mili	tary	artery wall 1966 Aug p 48-56
	74 May p 20–31	atherosclerosis, coronary disease, medicine, thrombus, monoclonal
counterforce strategy, atomic weapons, cruise missiles,	MIRV, missile	hypothesis, plaque formation 1977 Feb p 74-85 [1351]
accuracy, strategic weapons, C E.P, accuracy as mu	lupher of force	arteriography, heart surgery, atherosclerosis, coronary bypass, coronary
19	975 July p 14–23	occlusion 1968 Oct p 36–43
civil defense, fallout, limited nuclear warfare, technolo	gy assessment,	arteriole, capillary bed, blood circulation, mesentery, venule,
flexible-response strategy, limited nuclear war 19	76 Nov p 27–37	cardiovascular system 1959 Jan p 54-60
cruise missiles, SALT, strategic weapons, tactical weap		artery prostheses, cardiovascular disease, vascular surgery,
	b p 20-29 [691]	atherosclerosis, repair of vascular disease damage
neutron bomb, atomic weapons, tactical nuclear weap	ons, U S	1961 Apr p 88–104
decision to develop and deploy enhanced radiation	weapons	artesian well, ground water, piezometric surface, water table, water cycle,
1978 Ma	y p 44-51 [3007]	resource management, runoff, ground water in water-resource
USSR. explodes its first bomb	1949 Nov p 26	management 1950 Nov p 14-19 [818]
	_	irrigation, ground water, agricultural technology, Sahara desert, water
acceleration of U S atomic weapons research and pro-		resource management, land reclamation, intercalary water, 'fossil'
***	1949 Dec p 26	water, making desert fertile 1966 May p 21-29
U S accelerates production of atomic weapons	1950 Mar p 26	arthritis, gout, colchicine, metabolism, chemistry of gout
Kapitza 'on strike'	1957 Feb p 57	1958 June p 73–81
U S and U S S R. capabilities	1960 Dec p 76	medical diagnosis, thermography, tumor, skin temperature, circulatory
lunar radar reflection trips missile alert	1961 Feb p 66	disorders 1967 Feb p 94-102
USSR. breaks moratorium, tests big H-bombs	1961 Oct p 80	an infectious disease? 1951 Aug p 30
radio astronomy, defense of Project West Ford	1961 Nov p 78	growth hormone blamed 1953 May p 58
200th ICBM in place	1963 Feb p 64	arthritis remedies, cortisone and ACTH 1949 July p 28
thermonuclear-weapons test in China	1966 July p 48	artificial diamonds, lithosphere, ultra-high pressure, coesite, borazon,
Nike-X ABM	1967 July p 40	properties of matter under 2×10^6 p s 1 1959 Nov p 61-67
China's first fusion bomb explosion	1967 Aug p 38	artificial fibers, natural fibers, spinning technology, textile fibers, yarn
Nike-X ABM	1967 Nov p 52	1972 Dec p 46-56
antimissile warhead	1968 Jan p 44	artificial heart, heart transplant, kidney transplant, immunosupression,
worldwide wide arms expenditures	1970 May p 56	organ transplant, mechanical heart implant
world military expenditures B-1 bomber planned	1971 July p 42	1965 Nov p 38–46 [1023]
strategic-arms modernization under SALT	1973 May p 42	artificial intelligence, computer chess, automata theory, 'thinking'
after MIRV, MARV maneuverable reentry vehicle	1973 June p 38	approaches an operational definition 1950 Feb p 48-51
US budget increase	1973 Dec p 55	computer chess, chess-playing computer 1958 June p 96-105
land-based missiles, triad concept	1974 Mar p 44	language, Loglan, linguistics, 'language of logic' 1960 June p 53-63
SIPRI report	1974 Apr p 48 1974 Dec p 60	computer technology, pattern recognition 1960 Aug p 60-68
cruise missile	1974 Dec p 60 1975 June p 41	computer technology, heuristic programs computer programming
'Missile X', mobile ICBM's	1973 Julie p 41	1966 Sept in 246, 260
reviewed by U N	1977 Mai p 36	computer chess minutes of man-machine chess game
declaration by 12,000 U S scientists	1978 Feb p 76	1973 June p 92–105
see also atomic bomb, atomic bomb test, hydrogen b	omb and the life	evolutionary model 1952 Sant p. 60
arms trade, arms production military expenditures, arm	ne race economic	artificial kidney, kidney, dialysis 1961 July p 56–64
development the world cost of the arms race	as race, contonue	dialysis of lymph
	Oct p 21-27 [650]	artificial light, biological clock, sunlight suntanning, vitamin D, body's
third-world weapons	1072 Inn n 44	165 Polise to light 1075 Tuly = 60 77 (1936)
Armstrong, radio communication, frequency modulation	on, life and work	artificial membranes, cell membrane, enzymes, enzyme action, enzymes as
of Edwin H Affistrong	054 4 64 60	1100311101 Calaitysis 1071 Ma- 26 20 110 15
army ant, insect behavior, social insect, anti-comparate	n a mar abalam	artificial fluscie, fluscie contraction anomur trough ATD
reproduction, recuback, pheromones trophallages	natural history.	actinomyoshi, muscle relaxation 1952 Dec 18 21
DIMOSODIA OF SCIENCE AHUNTODOMOTTHICS	1040 Tunn - 16 33	synthetic muscles 1932 Dec p 18-21 1949 Oct p 28
insect behavior, anis, social insect, retrospective sum	mary of work of	1242 Oct p 28
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1965 Nov. = 40	scismology, atomic bomb test, underground nuclear	explosions, how to
Alchinedes mirrors, incendiary weapon 1077 tune = 64	easthqual co	h from small
architectual acoustics, sound wayes, auditoriums, wave acquetics, sound		1962 June p 55-59
interference, sound diffraction, acoustic reverberation, effective	earthquakes, atomic test ban, atomic bomb test, und	terground nuclear
management of sound in public buildings and dwellings	explosions, seismology, detection and discriminat atomic weapons tests	ton of underground
1963 Nov p 78–92	atomic test ban, seismology, underground nuclear ex	1966 July p 19–29
architectural drawing, computer graphics, computer modeling	technology for vertification of underground nuclea	r test han
1974 May p 98–106	1972	Jan n 13_23 [3/3]
architectural engineering, war, eastle, Norman invasion, English eastles, A D 1066	antisubmarine warfare, missile submarines, SALT n	nutual assured
	destruction, SLBM, sonar, acoustic detection	
building construction, prestressed concrete, materials technology	1972	July p 14-25 [345]
1958 July p 25-31 roof, vault, Gothic arch, Romanesque barrel vault, Byzantine dome,	atomic test ban, 'fireball blackout', EMP effect, unde	rground nuclear
building construction, vaulting technics 1961 Nov p 144–154	explosions, strategic weapons 1972 N	lov p 15-23 [342]
Gothic cathedrals, optical model, Bourges cathedral, Chartres	satellite, SALT, strategic weapons, verification techn	ology, 'national
cathedral 1972 Nov p 90–99	technical means of verification' 1973 I	Teb p 14-25 [346]
Pisa tower 1972 Oct p 48	'International Disarmament Control Organization' hydrogen bomb, 'Oppenheimer case', debate over 'su	1974 Oct p 21–33
architecture, building construction, primitive architecture, climate, igloo.		75 Oct p 106–113
teepee, yurt, tent, sod hut, adobe house, hogan, stilt house	SALT, cruise missiles, bombers, strategic weapons, C	arter
1960 Dec p 134-144	administration 'comprehensive proposal' for US-I	JSSR, force
sunlight, lighting, solar radiation, building construction, glass	levels 1977 A	ug p 24-31 [696]
1968 Sept p 190–202	nuclear power, atomic-weapon proliferation, plutoniu	m fuel cycle,
information theory, painting, sculpture, visual communication,	breeder reactor, U S energy policy and proliferatio	
communication, trademarks, language, visual stimulus, visual signals	weapons 1978 Ap	r p 45–57 [3004]
1972 Sept p 82–96 [548] stairs, stride, walking 1974 Oct p 82–90	re-grouping for negotiations	1949 Dec p 26
atr conditioning, air vent, wind tower, domed roof, cooling system,	US-USSR, deadlock stand-off at UN	1954 Aug p 38 1962 Jan p 58
passive cooling systems in Iranian architecture	Arctic arms-inspection zone	1965 Jan p 48
1978 Feb p 144-154 [705]	ABM moratorium proposed	1966 Jan p 46
sculpture, erosion, marble, limestone, atmospheric pollution,	underground test ban, US position	1966 Aug p 40
weathering, preservation of stone 1978 June p 126-136 [3012]	chemical and biological weapons	1966 Nov p 64
Wren as astronomer 1976 Jan p 63	outer space treaty	1967 Jan p 54
Arctic, Stone Age hunters, Alaska, Siberia, Greenland, Dorset culture,	chemical and biological weapons	1967 Apr p 48
circumpolar Stone Age culture 1954 June p 82-88 animal migration, polar bears, telemetry, satellite, satellite tracking of	ABM debate, advantage of offensive marine disarmament	1968 Feb p 50 1968 Apr p 42
migratory animals 1968 Feb p 108–116 [1102]	Treaty of Platelolco, Latin America nuclear free zone	1500 73pr p 42
Arctic flora, desert adaptation, cold adaptation, paleobotany, Greenland	••••••••••••••••••••••••••••••••••••••	1968 May p 48
flora, adaptations to Arctic climate 1956 Feb p 88–98		1968 Nov p 54
Arctic Occan, ocean circulation, telemetry, meteorology, Northeast	1 1	1969 Nov p 56
Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic		1971 Jan p 44 1971 Mar p 44
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warming up 1954 Dec p 56 Arctic Ocean currents, ice-floe islands, weather 1954 Dec p 40–45	D F F	1971 Nov p 46
rea-minimizing principle, measure theory, mathematical model,		1972 Apr p 54
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rena behavior, bowerbirds, sexual behavior, courtship display, animal		1974 Oct p 55 1975 Jan p 48
behavior, Australian bowerbird, natural history 1956 June p 48-52	MIRV limits arms production, armed forces of U S, employment 1951	
bowerbirds, sexual behavior, animal behavior, courtship display,	military expenditures, arms trade, arms race, economic d	evelopment,
releaser stimulus, ethology, natural history 1963 Aug p 38-46 [1098]	the world cost of the arms race 1969 Oct	p 21-27 [650]
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rgon, crystal structure, cryogenics, noble gases, solid state physics, solid	arms race, USSR atomic bomb, Acheson-Lilienthal plan,	Baruch plan,
noble gases 1966 Oct p 64-/4	U S negotiating position at termination of 'atomic mo	nopoly Nov p 11–13
rid lands, urneation, sea water, salt-water agriculture, agronomy, salt	hydrogen bomb, thermonuclear reaction, the Hydrogen B	
tolerance 1967 Mar p 89–96	four articles published at the time the US government	determined
UN conference 1955 June p 48 A A A S conference 1955 Sept p 78	to proceed with its development, production, perfection	ı and
A A A S conference 1935 Sept p 76 ristotle, Classical physics, appraisal of a physicist of more accent fame	deployment 1950 l	Marp 11–15
than Newton 1950 May p 40-51	hydrogen bomb, the Hydrogen Bomb – second of four art	icles
an Euclidean geometry, parallel lines, non-Euclidian geometry before	published at the time the US government determined to with its development, production, perfection and deploy	o proceeu
English 1909 NOV p 67-90	1950 /	Apr p 18-23
rithmetic, mathematics, computer history, computer's contribution to	hydrogen bomb, the Hydrogen Bomb - third of four article	es published
	at the time the US government determined to proceed	with its
rmed forces hospitals, over-bedded 1949 Feb p 29 rmed forces of U.S., arms production, employment 1951 Sept p 89–99	development, production, perfection and deployment	May p 11-15
cose stomic bomb 11 S S R AYDIONES IIS IIISI UUJIU	hydrogen bomb, the Hydrogen Bomb - fourth of four artic	les
1949 Nov p 26	-unliked at the time the US government determined to	proceed
and agreement of arms control	with its development, production, perfection and deployi	ment
rms control, UN, role of UN in resumed negotiation of arms control 1950 Jan p 11-13	1950 Jմ	ine p 11-15
and an account military expenditures impact of	military deterrence, counterforce strategy, arms control, ato weapons, USA-USSR negotiating postures 1962 A	DFD 43-33
	fallout shelters civil defense social psychology, counterfore	e strategy,
military deterrence, counterforce strategy arms race atomic weapons	social impact of fallout shelicrs 1962 May p	46-51 [637]
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gamma-ray astronomy, Earth satellite, telemetry	, first glimpse of 1962. May p 52–61	airglow, ionosphere, solar radiation, ozoi atmosphere, laboratory simulation, ato	
gamma-ray sky calendar, solar system, planetary motion, time, l		utinoophoto, incommon, ameni, am	1966 Mar p 102-110
year, Copernicus, astronomy, Copernicus, len	ath of calendar year	interplanetary space, Mars, Mariner 4, m	
year, Copernicus, astronomy, Copernicus, ien	1966 Oct p 88–98	micrometeorites, trapped radiation, so	lar wind, cosmic radiation.
Charles A an Dalamanana managatara	1959 Nov p 92	space exploration	1966 May p 62-72
Stone Age Polynesian navigators	1965 Jan p 48	Mars, Venus, space exploration, atmosph	
telescope construction program urged	1968 Nov p 55	man, consequence of persons and persons are persons and persons and persons are persons and persons and persons and persons are persons are persons and persons are persons are personal persons are persons and persons are p	1969 Mar p 78-88
instrumentation improvements	1974 Sept p 72	wind, ocean circulation, climate, Coriolis	
prescientific astronomy		calcium carbonate, carbon cycle, sedime	ntary rock photosynthesis.
see also radio astronomy, gamma-ray astronom	ool light and	fossil fuel combustion, biosphere, carb	
strophysics, light scattering, zodiacal light, zodiac	1040 July 2 54 42	105511 fuel combustion, biosphere, care	1970 Sept p 125–132 [1193]
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		carbon dioxide 'window', climate, bioma	
Eotvos experiment, red shift measurement, rela	1074 Nov. p. 24.22	'greenhouse effect', threat of 'greenhouse	
theories assessed	1974 Nov p 24–33	greeniouse erreet, tinear or greenion	1978 Jan p 34–43 [1376]
maser, cosmic masers, hydroxyl maser, water m	aser, maser star,	awagan layal	1970 Oct p 54
interstellar matter, quantum mechanics, 'nati	1079 June - 00 105	oxygen level soil as CO sink	1971 Aug p 47
	1978 June p 90–105		1974 Oct p 58
chemistry of comet	1956 Sept p 113	superpressure balloon	
Kozyrev controversy	1960 Jan p 72	atmosphere-hydrosphere cycles, biosphere,	
Lacerta celestial supermagnet	1961 Mar p 84	photosynthesis, environment, introduc	
Gegenschein	1962 Jan p 66	biosphere	1970 Sept p 44-53 [1188]
X-ray source near galactic center	1963 Dec p 67	atmospheric circulation, Corrolis effect, oce	
Hubble constant, red shift	1972 Feb p 41	motion	1952 May p 72–78 [839]
expansion of universe, test by microwave absor	rption 1973 Oct p 48	jet stream, upper atmosphere, weather, is	
gamma-ray bursts	1975 Apr p 56		1952 Oct p 26-31
asynchronous muscle, muscle fibril, sarcoplasmic	reticulum, insect flight,	trade wind clouds, climate, cumulus clou	
synchronous muscle, insect flight muscles		interface	1953 Nov p 31–35
	965 June p 76–88 [1014]	Earth, solar energy, Earth rotation, circu	
atelectasis, see hyaline membrane disease			1955 Sept p 114-124
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hypertension	1948 Aug p 44-47	Antarctica, climatology, solar radiation,	
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	1966 Aug p 48–56	circulation, terrestrial radiation, carbo	
arteriography, heart surgery, coronary bypass,	coronary occlusion	energy cycle	1970 Sept p 54-63 [1189]
	1968 Oct p 36-43	climate, air pollution, carbon dioxide 'wi	
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monoclonal hypothesis	1973 Aug p 44	atmospheric inversion, air pollution, smog	
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	1955 Jan p 30-35 [810]	walking on water	1976 Jan p 102–111
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cscape velocity, photosynthesis volcanoes w	1953 May p 65–73	ozone, Earth, ultraviolet radiation, ultrav	violet-radiation hypothesis
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1951 July n 18-21	brain damage, birth trauma, cerebral palsy, monkey experiments, implications for human infants 1969 Oct. p. 76-84 (1158)
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artificial rice, taploca and peanuts 1954 Oct p. 49	aspirin, inflammation, analgesics, fever, histamine reaction,
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U.S. 10-pound (pre-Sputnik) satellite 1956 Nov. p. 41-47	most widely used drug 1963 Nov p 96-108
artificial satellites, orbital motion, forecast of lunar rocket expeditions	chelation, hemochromatosis lead noisoning phonon at
orbital mation, satelline arranged in 1957 June p 47–53	action, wilson's disease, metal poisoning, heavy metal poisoning
orbital motion, satellite, space exploration, Sputnik, tracking station, first artificial Earth satellite 1957 Dec. p. 37-43	bone eancer, salicylates, cancer therapy, chemotherapy, medical
orbital motion, interferometry, antennae, radio astronomy, tracking	exploitation of chelates 1966 May n. 40_50
	digestion, hydrochloric acid, alcohol, stomach mucosa, self-digestion
solar particles, cosmic radiation, telemetry, Van Allen belts,	safeguards 1972 Jan p 86–93 [1240]
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perihelion shift, clock paradox, general relativity, testing Einstein's	assembly, robot, labor-saving devices, computer applications,
general theory of relativity 1959 May p 149-160	manufacturing productivity, programmable robot for product
ionosphere, climate, aurora borealis, Van Allen belts, orbital motion,	assembly 1978 Feb p 62–74 [929]
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1959 Aug p 37-43 [851]	teams, management science, 'scientific management'
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1963 May p 84-96	diamond, meteorites, Canyon Diablo meteorite, iron-nickel phases,
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1963 Aug p 28–37	albedo, meteorites, planetisimal collisions, solar system formation,
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communication, telecommunication, data transmission, pulse code	astroblemes, fossil crater, Chubb crater, meteoritic impact, cratering
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Earth, orbital motion, geoid, equatorial bulge, shape of the Earth	coesite, meteorites, shatter cones, cratering, fossil Earth catastrophes
1967 Oct p 67–76 [873]	exhumed by glaciation on Canadian shield 1973 July p 51
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artificial satellites, artificial satellite, orbital motion, forecast of lunar rocket expeditions 1957 June p 47-53	astronomical atlas, Palomar sky survey 1949 Aug p 24
artificial sensory organs, automata theory, feedback, mechanical	astronomical observatory, genesis of Kitt Peak 1956 Jan p 44
behavior, an imitation of life 1950 May p 42–45	astronomical probabilities, intelligent life, evolution, The thesis man is
artistic creations, premature discoveries, scientific creations, uniqueness	alone in space 1953 July p 80–86
of scientific discoveries 1972 Dec p 84-93 [1261]	astronomical telescope, infrared astronomy, infrared stars, 62-inch telescope at Mount Wilson 1968 Aug p 50-65
Arum family, voodoo lily, insect attractant, carnivorous plants,	astronomical unit, solar system, space exploration, Venus probes, Doppler
respiration 1966 July p 80–88 Arroya Anatolia archeology Hittites 1955 July p 42–46	effect, radar, Earth-Sun distance more precisely measured
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assites tumor isotopes, radioautography, cell life cycle, cellular	galaxies, red shift, galactic recession, universe expansion, science,
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1939 Julie p 140-150	1954 Dec p 94-98 image enhancement, electronic camera, image intensifier, telescope,
Asilomar conference, gene manipulation, molecular cloning, plasmids,	electronic amage processing 1956 Mar p 81-90
	philosophy of science gatactic clusters, universe, planetary motion
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1903 NOV P 37-13 [100]	universe 1956 Sept p 72-81 ultraviolet radiation telemetry, Sun, rocket-borne instrumentation
penaragingse, cancer therapy, leukemia 1968 Aug p 34-40	(959 June p. 52-39
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asphalt binder, earthen building block asphylia, breathing diving bradycardia, respiratory gas exchange, diving asphylia, breathing diving bradycardia, respiratory as exchange, diving	science history, 16th century Hyon observatory 1961 Feb p 118-128
	polarization supernovae Crab Nebula photometric observations of
ischemia human physiology, redistribution of oxygen Bernard 27, 106	nova outbursts 1962 Apr p 54-63
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	1962 May p 52-61	atmosphere, laboratory simulation, atomic	1966 Mar p 102–110
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year, Copernicus, astronomy, Copernicus, length	1966 Oct p 88–98	micrometeorites, trapped radiation, solar v	wind, cosmic radiation,
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	1974 Nov p 24–33	'greenhouse effect', threat of 'greenhouse e	1978 Jan p 34-43 [1376]
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chemistry of comet	1960 Jan p 72	atmosphere-hydrosphere cycles, biosphere, Ear	· · · · · · · · · · · · · · · · · · ·
Kozyrev controversy Lacerta celestial supermagnet	1961 Mar p 84	photosynthesis, environment, introduction	
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military secrecy, 'secret' disclosed at Rosenberg-So		of isotopes	1951 Mar p 22-26
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A E C 'effects' handbook in third edition France, China and 'nth' country	1964 Dec p 60	19:	56 July p 55-68 [217]
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		Savannah River reactor	1951 Jan. p.
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technology, X-ray absorption 19	76 Apr. p. 96-103	Livermore laboratory	1954 Mar. p.
crystal structure, disclinations, dislocations, molecula	ar structure,	negotiations revived	1955 Jan. p.
periodic structures 1977 De	c. p. 130-145 [393]	German Federal Republic denunciation	1957 June p.
atomic test ban, arms race, national security, atomic bo	mh test, missile	simulation of nuclear explosion	1961 Aug. p.
policy, military technology, fallout shelters 1964 (Oct. p. 27–35 [319]	n th power question	1973 Sept. p.
policy, miniary technology, failout shorters 1904	ovelosions	atomic weight, carbon 12 standard	1961 Oct. p.
earthquakes, atomic bomb test, underground nuclear	explosions,	atoms, elementary particles, electron, neutron, pro	ton motter structure
seismology, arms control, detection and discrimina	ation of		
underground atomic weapons tests	1966 July p. 19–29	of 'ordinary matter'	1967 May p. 126-1
ABM systems, arms race, ICBM, MIRV, atomic wea	pons, SALT,	'atoms for peace', nuclear power, thermonuclear r	
strategic weapons, prospects for freeze on number	s and qualitative	fusion reactor, C.E.R.N., first of a four-part	report on the
improvement of weapons	1971 Jan. p. 15-25	International Conference on the Peaceful Us	es of Atomic Energy,
arms control, seismology, underground nuclear explo		Geneva, August 1945	1955 Oct. p. 27-
arms control, seismology, underground nuclear explo	osions, teennotogy	nuclear power, nuclear fuel, fuel-element fabric	
for verification of underground nuclear test ban	14 22 (242)		
1972	Jan. p. 13-23 [343]	Geneva: chemistry	1955 Oct. p. 34-
arms control, 'fireball blackout', EMP effect, underg	round nuclear	radiation hazards, gene mutation, safety standa	
explosions, strategic weapons 1972 1	Nov. p. 15~23 [342]		1955 Oct. p. 38-
India as atomic power, nuclear nonproliferation trea	ty, 'nuclear club',	fission reactor, nuclear power, breeder reactor,	Geneva: reactors
	1975 Арг. р. 18-33		1955 Oct. p. 56~
variety of methods for surveillance	1949 Nov. p. 27	secrecy downgraded	1955 July p.
detection of the description and application	1958 Oct. p. 52	Ford Motor Company award	1955 Oct. p.
detection of underground nuclear explosion		international community	1955 Nov. p.
question of detecting and indentifying underground	explosions	· · · · · · · · · · · · · · · · · · ·	
	1959 Apr. p. 64	U.N. nuclear energy agency	1956 June p.
strontium 90 fallout	1959 May p. 68	U.N.A.E.C. constituted	1956 Dec. p.
detection of underground nuclear explosion	1959 Aug. p. 61	U.N. agency staffed	1957 Dec. p. 1
detection of high-altitude testing	1959 Sept. p. 103	U.N. agency in Latin America	1958 Aug. p.
control organization	1960 Jan. p. 70	Atoms for Peace Award, to Bohr	1957 May p.
disagreement on seismic surveillance	1960 Feb. p. 64	Enrico Fermi Award, 1958 winners	1959 Jan. p.
	1960 Apr. p. 82	to Szilard, Wigner, Weinberg, Zinn	1960 June p. 1
Geneva 1960 talks	1960 June p. 80	ATP: adenosinetriphosphate	1300 Julie p. 1
detection of underground nuclear explosion			9-1-1-1-1-1-1
U.SU.S.S.R. negotiations	1960 July p. 76	ATP, muscle contraction, actin, myosin, muscle fi	
U.S. & U.S.S.R. approach agreement	1962 Sept. p. 98	mechanism of muscle contraction	1949 June p. 22-:
underground testing	1962 Oct. p. 58	muscle contraction, artificial muscle, Langmuir	trough, actinomyosin,
monitoring underground explosions	1963 Jan. p. 58	muscle relaxation	1952 Dec. p. 18~;
inspection controversy	1963 Mar. p. 72	muscle contraction, fermentation, citric-acid cy	cle, energy
inspection controversy (cont.)	1963 Арг. р. 80	transformation	1953 Apr. p. 85~
U.SU.S.S.R. negotiations	1963 Aug. p. 48	fat metabolism, fatty acids, coenzyme A, enzym	100 11p1. p. 00-
terms of U.SU.KU.S.S.R. agreement, 31 signers		rat metabolism, ratty dotas, coolizyme A, enzym	1954 Jan. p. 32-36 [1
	1963 Nov. p. 64	citric-acid cycle, mitochondrion, cell metabolis	1934 Jan. p. 32-30 [1
next in outer space	_	of historical avidation	
brake on arms race	1964 Feb. p. 66	of biological oxidation	1958 July p. 56-6
seismograph array	1965 Mar. p. 54	cytology, energy transformation, mitochondrio	n, citric-acid cycle,
'threshold' treaty criticized	1976 July p. 60	glycolysis, oxidative phosphorylation, memb	rane, energy
threshold test ban treaty	1977 Apr. p. 52	transformation in the cell	1960 May p. 102-11
atomic theory, Rutherford-Soddy theory, element tran	ismutation, science	photosynthesis, chlorophyll, chloroplast, prima	ry capture of light
history, radioactivity, radioactive decay transmu-	tation, reception of	energy in photosynthesis	1960 Nov. p. 104-11
'newer alchemy'	1966 Aug. p. 88-94	biotin, B vitamin, function of little-known B vit	amin
Greek science, Renaissance science, science history	Roscovich	The state of the state s	1961 June p. 139-14
	970 May p. 116-122	chloroplast, mitochondrion, photosynthesis, cel	1901 June p. 139~12
atomic warfare, radar blackout, arms race, counterfor	as strategy ARM	glucogenesis citris acid evals also luci	i metabolism,
1CBM, U.S. ABM system capabilities and limita	ce strategy, Abivi,	glucogenesis, citric-acid cycle, glycolysis, oxid	lative phosphorylation
room, o.b. ribin system capabilities and limita		cytology, cellular transformation of energy	1961 Sept. p. 62-73 [9
fission products as weapons	1968 Mar. p. 21–31	chlorophyll, photosynthesis, chloroplast, electro	on transfer, cytochrome
nission products as weapons	1950 Sept. p. 46	pigments, role of chlorophyll in photosynthe	sis,
atomic-weapon proliferation, nuclear nonproliferation		11	965 July n. 74_83 1101.
zones, Treaty of Tlatelolco	1975 Nov. p. 25-35	actin, muscle contraction, myosin, electron mic	roscopy, sliding-
cnergy conservation, energy resources, nuclear read	ctor, fission reactor,	illament hypothesis 10	65 Dec n 19 77 (10)
nuclear-waste disposal, Rasmussen report 197	6 Ian n 21-31 (348)	mitochondrion, glycolysis, cell membrane enzy	mes ovidativa
nuclear power, arms control, plutonium fuel cycle	breeder reactor	phosphorylation, cell metabolism, mitochond	ineo, o agailite
U.S. energy policy and proliferation of atomic w	reapons	2 2 James of an interconstit, introctionic	mai memorane
1070	A 45 57 1200A1	muscle contraction, calcium, barnacle, biolumit	068 Feb. p. 32-39 [110
atomic weapons, A.E.C., nuclear power, science fund	ing university	calcium ions in muscle construction	rescence, aequorin,
research, minitary scerecy	10/0 Tulu - 20 /2	mineral cycles biombass 19	70 Apr. p. 84-93 [117:
military deterrence, counterforce strategy, arms co	ntrol. arms race	mineral cycles, biosphere, phosphorus cycle, sul	fut cycle, sulfur

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biosphere

military deterrence, counterforce strategy, arms control, arms race,

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deprivation 'mechanical boy'

musele, glyeolysis, acrobie metabolism, oxygen debt, lactic acid	auditory localization to a
formation, aerobic metabolism, anaerobic metabolism, anerov	auditory localization, directional orientation, auditory perception,
meclianisms in musele 1972 Mar. p 84-91 [124	1061 Oct - 122 140
ACTH, glucogenesis, glycolysis, hormone, epinephrine, cell	anditory perception, music, sound reproduction, tape recorders, comes
motabolism and AMP	grammaphones, engineering of sound systems 1961 Aug p 7
metabolism, eyelic AMP, activation of cyclic AMP by hormones	Ulfectional orientation bearing auditorities to the
1972 Ang n 97-105 (125)	6) Granton, hearing, auditory localization, binaural hear
actin, myosin, actinomyosin, muscle contraction, tropomyosin,	
troponin, calcium, microstructure of muscle filament and	solial, bals, predator-prev relationship moths ultrasound moth so
bioeliemistry of contraction 1974 Feb p 58-71 [1290]	detection of partificasound 1965 Apr n 94 102 (2)
bioeliemistry of contraction 1974 Feb p 58-71 [1290	brain hemispheres, cerebral dominance, left-hemisphere functions,
axoneme, cell motility, cilia, flagella, microtubules, how cilia move,	music percention right hemisphere functions,
parameetum, spcrm 1974 Oct p 44-52 [1304	music perception, right-hemisphere functions, visual perception
cell membrane, colicine, membrane energetics, active transport, E coli	
the manual of the month of the chergenes, active transport, E con	auditory beats, brain, hearing neurology cound inheritors
1975 Dec p 30-37 [1332	1973 Oct p 94-102 [12
oxidative phosphorylation, cell membrane, active transport,	brain hemispheres, cerebral dominance, musical illusions, handedne.
mitochondrion, chloroplast, formation of the energy-exchange	bearing allusions, estectial dollarance, musical musions, nandeone
	hearing, illusions, perception, two-tone illusion
12.0 Mai p 104 125 (1505	
1755 tetat p 52	Audubon, animals, animals by John James Audubon 1952 Jan p 64
mitochondria 1963 June p. 77	aureomycin, antibiotics, virus disease, rickettsial disease, bacterial
ATP synthesis, mitochondria, electron transfer, oxidation membrane,	
mitochondrion, proposed structure of mitochondrion	infection, 'broad spectrum' antibiotic 1949 Apr p 18-
	antibiotics, penicillin, streptomycin, chloramphenicol, infections
1964 Jan p 63-74	disease, the antibiotic revolution 1952 Apr p 49-
atrioventricular node, heart contraction, heart rate, cardiac pacemaker,	promising in radiation sickness 1949 Dec p
sinus node 1967 Mar p 32-37 [1067]	animal growth accelerator 1950 June p
attack prevention, animal behavior, sharks, sensory systems, feeding	Autismation Designation Detailed Designation Designation
behavior	Aurignacian-Perigordian, Paleolithic Europe, Cro Magno art,
behavior 1962 July p 60-68 [127]	
attention, emotion, pupil size, attitude, eye, effect of attitude on pupil size	aurora, upper atmosphere, stratosphere, tonosphere, radio
1965 Apr p 46-54 [493]	
learning, physiological psychology, novelty, conflict, monotony,	Sun, solar flares, ionospheric storms, sunspots, geomagnetic storms
and the said array of and a large and a la	Sun, solar mates, follospheric storms, sunspots, geomagnetic storms
conflict and arousal, aid to learning 1966 Aug p 82-87 [500]	
brain waves 1974 Apr p 51	magnetic storms, sunspots, cone of avoidance, solar wind, solar
attention mechanism, speech perception, hearing, cochlea, phonetics,	rotation, corpuscular streams, cycles in 'solar wind'
neuropsychology, hearing two messages at a time	1955 Feb p 40-4
1962 Apr p 143–151 [467]	Earth, airglow, corpuscular streams, solar spicules, nightglow, aurora
attitude, emotion, pupil size, eye, attention, effect of attitude on pupil size	and airglow 1955 Sept p 140-15
1965 Apr p 46-54 [493]	Antarctica, Earth magnetic field, 'whistlers', upper atmosphere, solar
attitude adaptation, metabolism, oxygen starvation, erythrocyte,	wind, atmosphere-magnetic field-solar wind interaction
acelimatization 1955 Dec p 58-68	1962 Sept p 74-83 [858
attitude survey, public opinion, American soldiers, social discrimination,	artificial satellite, geomagnetism, Lorentz force, magnetosphere, solar
	an inicial saleine, geologicussii, Lorenz fote, magnetosphise, som
sociology, studies of attitudes and morale of US troops during	radiation, Van Allen belts, radiation belts, physics of Van Allen belts
World War II, including experiments in racial integration of military	1963 May p 84-91
units 1949 May p 11–15	artificial satellite, geomagnetism, solar wind, magnetosphere,
prejudice, hostility, insecurity 1950 Oct p 11-13	magnetometer, orbital motion 1965 Mar p 58-65
mass communications, elections, public opinion 1953 May p 46-48	cosmic radiation, interplanetary fields interplanetary particles,
	magnetosphere, solar flares, solar wind, Van Allen belts, solar system
elections, public opinion, voting behavior, election of 1952	magnetosphere, som naies, som which want fores, som system
1954 May p 31–35	1975 Sept p 160-173
public opinion, American Negro, US whites, desegregation, racial	aurora borealis, artificial satellite, ionosphere, climate, Van Allen belts,
segregation, sociology, longitudinal attitude study	orbital motion, meteorology, solar particle influence on Earth
1956 Dec p 35-39	atmosphere 1959 Aug p 37-43 [851]
	solar wind, solar corona, Earth magnetic field, Van Allen belts, comet
desegregation, racial integration, public opinion, US whites, American	
Negro, longitudinal attitude study reported in 1956	tails, magnetic storms 1964 Apr p 66-76 geomagnetism, solar radiation, ionosphere, magnetosphere, solar wind.
1964 July p 16-23 [623]	geomagnetism, solar radiation, tonosphere, magnetosphere, solar wild,
desegregation, racial integration, American Negro, US whites, public	physics of the aurora 1965 Dec p 54-62
opinion, longitudinal attitudes study 1971 Dec p 13-19 [673]	ausform process, crystal structure, steel alloys, materials technology, heat-
female-role ideology, sex roles, women's aspirations	treating for strength 1963 Aug p 72-82
1972 Jan p 34-42	Australia, rabbit plague, myxomatosis, pest control 1954 Feb p 30-35
19/2 Jan p 34-42	behavioral adaptation, ecology, insect behavior, sand wasps, solitary
racial discrimination, prejudice, American Negro, public opinion, US	
whose segregation integration longitudinal attitude study	
1978 June p 42-49 [707]	Australian antigen (B), antibodies, hepatitis A, hepatitis B, transusion
atypical pneumonia, by aspiration 1952 Jan p 36	hepatitis, viral hepatitis, viral structure, viral disease
	1977 July p 44-52 [1365]
	Australopithecus, man-apes human evolution, Homo, Paranthropus,
audiovisual technology, thermoplastic recording 1960 Feb p 70	Plestanthropus 1949 Nov p 20-24 [832]
auditoriums, architectual acoustics, sound waves, wave acoustics, sound	Gigantopithecus, human evolution, hominid, pongids
interference, sound diffraction, acoustic reverberation, effective	1970 Jan p 76-85
management of sound in public buildings and 1963 Nov p 78-92	ape man too.
auditory beats, brain, hearing, neurology, sound vibrations, auditory	tool and fire user 1960 May p 95
	hominid antiquity 1967 Mar p 52
perception 1973 Oct p 34-102 12009	hominids, toolmaking 1971 Mar p 46
auditory discrimination, bats, bat sonar, sonar, echo-sounding, sensory	fossil dating 1971 Apr p 52
percention supersonic sonar of hats 1930 July P 40-47 (1991)	stone tools toolmaker 1974 Aug p 48
the invelope honored perception phonelics special delectricity	from Homo to ape 1976 Fch p 54B
11 no not obologi illusione as clude 10 offallitation of porote	Australopithecus Paranthropus, man-apes, human evolution,
an mountains	Australopineous Parantitopus, manapes,
apparatus auditory impairment, noise-induced hearing loss occupational health,	Plesianthropus primates, nominius branches front offici primates 30
auditory impairment, noise-induced nearing ross observating noise-	
noise pollution, industrial hygiene, public health, preventing noise-	Australopithecus robustus, Homo divergence 1969 June p 56
induced hearing loss, US noise pollution legislation 1966 Dec p 66-76 [306]	autism, child psychiatry, schizophrenia, psychoanalysis emotional
1900 Dec p 20-10 t-0-1	deprivation 'mechanical boy' 1959 Mar p 116-127 [439]

behavioral psychology, child psychiatry, emotional illness,	cargo handling, shipping, containerization, loading, air transport 1968 Oct. p. 80-88
schizophrenia 1967 Mar. p. 78–86 [505] rubella, measles implicated in autism 1972 Dec. p. 42	chromatography, process control, control systems, predictive control
autoimmune disease, autosensitivity, nervous disease, multiple sclerosis,	1969 June p. 112–120 control systems, feedback, water clock, thermostat, windmills, flyball
allergic mechanisms in nervous disease 1949 July p. 16–19 antibody production, thymus, immunology, lymphocytes, DNA,	governor, origins of feedback control 1970 Oct. p. 110–118
thymus role in producing antibodies 1962 Nov. p. 50–57 [138]	computer technology, electric power generation, generator control,
antibodies, antigen complement, immune response, lymphocytes, virus	power-system control 1974 Nov. p. 34–44
antigens, virus disease, allergic reaction, immune-complex disease,	computer applications, machine tool, parts manufacture, batch process
glomerulonephritis, lymphocytic choriomeningitis, serum sickness	production methods 1975 Feb. p. 22–29
1973 Jan. p. 22–31 [1263]	computer technology, instructable machines, robot systems, servomechanisms 1976 Feb. p. 76-86B
autolysis, lysosomes, enzymes, phagocytosis, pinocytosis, metamorphosis, cellular digestive organ, 'suicide bag' 1963 May p. 64-72 [156]	automatic test systems, microelectronics, measuring instruments,
lysosomes, enzymes, phagocytosis, lysis, chromosome breakage,	control systems 1977 Sept. p. 180–190 [381]
lysosome implication in disease processes	impact assessed 1966 Mar. p. 54
1967 Nov. p. 62–72 [1085]	automatic factory, on paper 1951 Sept. p. 58
automata theory, cybernetics, feedback, automatic control, self-	automatic library, 'electronic selector' hunts references 1949 May p. 26 automatic manufacture, electronic equipment, Project Tinkertoy, modular
regulation, computer science, mechanical, biological, social self- regulation 1948 Nov. p. 14-19	design : 1955 Aug. p. 29–33
regulation 1948 Nov. p. 14–19 computer chess, artificial intelligence, 'thinking' approaches an	automatic pilot, aircraft landing, blind landing, air transport, instrument
operational definition 1950 Feb. p. 48–51	landing system, precision approach radar, ground-controlled
feedback, artificial sensory organs, mechanical behavior, an imitation	approach 1964 Mar. p. 25–35
of life 1950 May p. 42–45	automatic research, cell analyser 1949 Sept. p. 30
learning, feedback, conditioned reflex 1951 Aug. p. 60-63	automatic synthesis, insulin, protein synthesis, amino acids, peptide bond, 'solid phase' method of synthesis, polystyrene beads
automatic control, self-regulation, information theory, feedback, introduction to single-topic issue on automatic control	1968 Mar. p. 56-74 [320]
1952 Sept. p. 44-47	automatic test systems, automatic control, microelectronics, measuring
electroencephalograpby, brain waves, alpha rhythms, medical	instruments, control systems 1977 Sept. p. 180–190 [381]
diagnosis, Fourier analysis, toposcope display 1954 June p. 54-63	automation, see: automatic control
Turing machine, von Neumann machine, brain circuitry, computer design 1955 Apr. p. 58-67	automobile, railway, traffic patterns, cities, commutation, mass transit, transportation, Bay Area Rapid Transit system as model for urban
design 1955 Apr. p. 58-67 feedback, computer science, von Neumann machine, Turing machine,	transportation 1965 Sept. p. 162–174
self-reproducing machine, 'artificial living plants'	electric automobile, battery, air pollution, weight, cost, performance of
1956 Oct. p. 118–126	electric automobile 1966 Oct. p. 34-40
molecular replication, self-reproducing machine, computer technology,	progress in electrical propulsion 1966 Nov. p. 66
machine models of molecular assembly 1959 June p. 105-114 [74] biological sciences, mathematics, self-reproducing machine, nerve	electric for short hauls 1967 May p. 58 automobile design, technology history, automobile racing, Paris-Bordeaux
impulse, predation, Turing machine, mathematics in biology	race of 1895 1972 May p. 102–111
1964 Sept. p. 148-164	airbag, automotive safety, seat belts, crashworthiness tests
automatic cell sorting, blood cell analysis, computer analysis,	1973 Feb. p. 78–86
lymphocytes, pattern recognition, automatic analysis of white cells 1970 Nov. p. 72-82	automobile emissions, air pollution, smog, ozone, urban transport, air pollution control in Los Angeles 1964 Jan. p. 24-31 [618]
cell sorting, fluorescence-activated technique 1976 Mar. p. 108–117	automobile engines, high compression, 'knock', combustion chamber
automatic control, cybernetics, feedback, self-regulation, computer	design, high-octane fuel, mechanical vs chemical solutions for
science, automata theory, mechanical, biological, social self-	premature combustion 1950 Feb. p. 16–19
regulation 1948 Nov. p. 14–19 computer technology, digital computer, analogue computer, relay	Wankel engine, rotary engine, Tschudi engine 1969 Feb. p. 90-99 Carnot cycle, Diesel engine, isothermal combustion, Diesel's 'rational'
computers, binary arithmetic, logic, computer memory, control	engine 1969 Aug. p. 108–117
systems, status of 'mathematical machines' 1949 Apr. p. 28-39	air pollution, rotary engine, Wankel engine, auto engineering
self-regulation, automata theory, information theory, feedback,	1972 Aug. p. 14–23
introduction to single-topic issue on automatic control 1952 Sept. p. 44-47	external combustion engines, Stirling engine, engine efficiency
feedback, control loop, servomechanisms, flyball governor, positive	1973 Aug. p. 80-87 free-piston 1956 June p. 66
feedback, negative feedback, ecological system, nervous system,	fuel economy 1975 Nov. p. 56
economic system, feedback concept 1952 Sept. p. 48–55	automobile fuel, ammonia, emission control 1967 Aug. p. 39
control systems, servomechanisms, actuators, frequency response, pneumatic servomechanisms, hydraulic servomechanisms, control	automobile history, Airflow automobile, streamlining
systems 1952 Sept. p. 56-64	1977 Aug. p. 98–106 [697] automobile propulsion, electric power generation, energy storage,
continuous processing, fluid dynamics, petroleum refinery, control	composite materials, materials technology, flywheels
panel, automatic chemical plant 1952 Sept. p. 82-96 machine tool, batch process, digital-to-analogue conversion, numerical	1973 Dec. p. 17-23
instructions, automatic machine tool 1952 Sept. p. 101–114	automobile racing, automobile design, technology bistory, Paris-Bordeaux race of 1895
computer, solid-state electronics, analog-to-digital conversion, digital	race of 1895 1972 May p. 102–111 automobile transportation, air transport, technology assessment, science
computer, analogue computer, the universal machine	policy, air pollution, noise pollution, technology assessment
1952 Sept. p. 116-130 information theory, statistics, thermodynamics, noise, redundancy,	institutions proposed 1970 Feb p. 13-21 [332]
digital storage media, analogue storage media, information	automobiles, wheel bounce, road building, highway engineering. 'corrugated' road surface, 'washboard' road surface
compression, information 1957 Sept. p. 132–149	1963 Jan n. 128_136
productivity, capital-output ratio, labor force, economic and social impact of automatic control 1952 Sept. p. 150–160	energy conservation, engine efficiency, fuel consumption
manipulators, remote control, robot, feedback, industrial manipulators	1975 Jan n 34 44
1964 Oct n 88_96	automotive safety, airbag, automobile design, seat belts, crashworthness
economics, technology, input-output analysis, labor force, ILS impact	tests 1973 Feb. p. 78–86 model car 1957 Apr. p. 70
of technological change, 1947-1958, input-output tables	Clash-proof locks 1062 July = 60
1966 Apr. p. 25–31 [629] computerized design, computer technology, control systems, computer	autonomic herrous system, learning, heart rate blood pressure autors
graphics, uses of computer in technology 1966 Sept. p. 176-188	electrocardiography, learning voluntary control of autonomic nervous system 1970 Jan p. 30, 30 (525)
	1970 Jan. p. 30–39 [525]

Zen Buddhism, physiology, transcendental meditation, yoga,	even neverland
Zen Buddhism, physiology of meditation 1972 Feb p 84-90 [1242	axon, neurology, nerve conduction, Schwann cell, axoplasm, membra
8utopilot taught to stall	
	tube, physiology of neural transmission, concentration gradients
DIVID SYMMENS, DECIPIED Chromocome 1-1-1-1-1	see also giant axon 1966 Mar p 74-82 [1
relation of template and new chain	Syoneme ATD coll mand to
rod cells, cone cells, visual cells, protein synthesis, renewal mechanisms	
in retinal cells	axoplasm, axon, neurology, nerve conduction, Selection, 1974 Oct. p. 44–32 [1.
autosensitivity, nervous disease, autoimmune disease, multiple sclerosis,	
and the meeting of the first of	tube, physiology of neural transmission, concentration gradients
allergic reaction, poison ivy, dermatitis, theumatoid arthritis, mailer	
ociciosis, ucia yeu hypersensilivily 1060 A 120 10	Tiere Civilization, Cinnampa, Canals drainage Mexicon computers
autosomes, chromosome, gene mapping, genetic disease, chromosomal	agricultural system, highly productive farm plots, Aztec empire
4110111411C3 1071 Ann 107 110 110 110 110 110 110 110 110 110	. 1964 July n 00 00 fc
autotropiis, origins of life, Miller-Urev experiment, high-energy rediction	
noter out opins, let illentation, photosynthesis 1054 Ang = 44 52 (42)	
ccology, elicity cycle, blomass, solar energy, food chain, element	R
abundance, neterotrophs, the ecosphere 1958 Apr p 83–92	
auxins, apical bud, leaf scission 1955 Nov p 82–89 [116]	
agronomy, plant growth, oak, giberellin, function of plant growth hormone	1311 phocytes, 1-cells 1973 fully 5 52 60 1127
normone 1957 Apr p 125-134 [11] serotonin, LSD, comparative physiology, neurophysiology,	antibodies, bursa, cell differentiation, humoral immunity. Totalle
physiological function of serotonin 1957 Dec n 52-56	immune system, lymphocytes, thymus 1974 Nov. p. 58, 72 (130)
physiological function of serotonin 1957 Dec p 52-56 plant growth, cytokinins, dormin, plant hormones, giberellin	antibodies, cell membrane, histocomptability, antigens, immune
1968 July n 75 91 (1111)	response, immunoglobin, lymphocytes, T-cells
adaptation, trees, plant hormones, tree structure, av-head model	Byitamin history ATD Supervisor 51 at 1976 May p 30–39 [1338
mechanical design of trees 1975 July p. 92-102	B vitamin, biotin, ATP, function of little-known B vitamin
avalanche, snow, loose-snow avalanche, slab avalanche	1961 June p 139-140 Babbage, computer, difference engine, analytical engine, digital
1954 Jan p 26–31	computer, life and work of Charles Babbage 1952 Apr p 66-72
avalanche control, snow, mountains, hoar frost, types, causes and prevention of slides	babies, operant conditioning, learning pets, how to teach animals
prevention of slides 1966 Feb p 92-101 avascular tumors, angiogenesis, cancer, tumor inhibition, tumor	1951 Dec. p. 26–29 [423]
vascularization, tumor angiogenesis factor (TAF)	baboons, human evolution, social behavior, comparative psychology.
1976 May p 58–73 [1339]	social anthropology, Kung bushmen, sexual behavior, origin of
avian, see bird, birds	social behavior comparative assistations 1960 Sept p 76–87 [602]
avian evolution, birds from dinosaurus 1973 Aug p 44	social behavior, comparative psychology, sexual behavior, baboon troops in their natural environment 1961 June p 62-71 [614]
avian reproduction, ring dove, breeding cycle, sexual behavior, hormone,	troops in their natural environment 1961 June p 62-71 [614] baby boom, U S census, urbanization, age-sex distribution, family size,
fertilization 1964 Nov. p. 48_54 [488]	central city, suburbs, US census at 1960 1961 July p 39-45
calcium metabolism, eggshell thinning, pollution, chorinated	baby fat, obesity, pathological obesity 1973 Aug p 44
hydrocarbons, DDT, dieldrin, insecticide, food chain, ecological effect of pesticides 1970 Apr. p. 77–78 [1174]	background radiation, environmental pollution, ionizing radiation,
effect of pesticides 1970 Apr p 72–78 [1174] avian respiratory system, breathing, bird bones, lung structure	nuclear medicine, atomic bomb test, introduction to single-topic tissue on ionizing radiation 1959 Sept. p. 74-83
1971 Dec p 72–79 [1238]	tissue on ionizing radiation 1959 Sept p 74-83 backswimmer, surface tension, water-strider, whirliging beetle, ecology,
aviation, stratosphere, flight at high altitude 1952 Feb p 20-23	springtail, aquatic insect, insects of the water surface
'sound barrier', rocket engine 1953 Oct p 36-41	
heat barrier, supersonic flight, lift barrier 1953 Dec p 80-84	1978 Apr p 134-142 [1387]
	1978 Apr p 134-142 [1387] Bacon's cipher, binary code, Boolean algebra, computer history, science
traffic control in U.S. 1962 Jan p 60	history, Jacquard loom, punched cards
aviation industry, aeronautics, supersonic flight, commercial aircraft,	history, Jacquard loom, punched cards 1972 Aug p 76-83 bacteria, protein synthesis, genetic code, DNA, RNA, protein synthesis
aviation industry, aeronautics, supersonic flight, commercial aircraft, aircraft design, sonic boom, technology and economics of supersonic	Bacon's cipher, binary code, Boolean algebra, computer history, science history, Jacquard loom, punched cards 1972 Aug p 76-83 bacteria, protein synthesis, genetic code, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro
aviation industry, aeronautics, supersonic flight, commercial aircraft,	bacteria, protein synthesis, genetic code, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 sexual reproduction, conjugation, recombinant DNA, generic recombination, sexuality in bacteria 1956 by the page 1956 by the p
aviation industry, aeronautics, supersonic flight, commercial aircraft, aircraft design, sonic boom, technology and economics of supersonic transport 1964 June p 25-35 aviation medicine, Bert, medical history, Paul Bert, 'father' of aviation medicine 1952 Jan p 66-72	bacteria, protein synthesis, genetic code, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 sexual reproduction, conjugation, recombinant DNA, gene recombination, sexuality in bacteria 1956 July p 109-118 [50] gene transformation, drug resistance, strentomycin, presupposedus
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bacterial motility, flagella, 'twiddling', rotation of flagella	antigen-antibody reaction, immunity, infection, host-specificity,
1975 Aug p 36–44	viruses in infection and in the laboratory 1951 May p 43-51
cell membrane, halobacteria, photosynthesis, rhodopsin, salt-loving	virus disease, influenza virus poliomyelitis virus, bacteriophage,
bacteria 1976 June p 38–46 [1340]	antigen-antibody reaction, immunity, infection, bost-specificity, viruses in infection and in the laboratory 1951 May p. 43-53
algae, legumes, nitrogen fixation, nitrogenase, genetic engineering, Haber process, rhizobium, legumes, symbiosis, nitrogenase,	genetics, reproduction, tracer experiments, DNA, protein coat
biological nitrogen fixation 1977 Mar p 68-81	1953 May p 36–39
bioluminescence, fish, flashlight fishes, symbiosis	virus, life cycle, reproduction, provirus 1954 Mar p 34-33
1977 Mar p 106–114	virology, recombinant DNA, provirus, modified virus
barophilic bacteria, deep-sea environment, deep-sea microbes, Alvin submersible 1977 June p 42–52 [926]	1955 Apr p 92-98 [24] bacteria, gene transduction recombinant DNA, bacterial gene
submersible 1977 June p 42–52 [926] in crystalline array 1955 Jan p 44	transduction by phage infection 1958 Nov p 38-43 [106]
algae, photoelectric effect 1964 Mar p 59	bacterial-cell wall, lysozyme homeostasis, bacterial cytoplasm,
acteria disrupted, synthesize proteins 1954 Oct p 49	protoplasts, flagella, dissection of bacteria by lysozyme
acterial cell, cell wall, bacterial metabolism, penicillin, polysaccharides,	1960 June p 132–142 bacteria, conjugation, gene recombination, recombinant DNA.
glycopeptides, membrane 1969 May p 92-98 acterial-cell surface, glycocalyx, bacterial infection, infective specificity,	mechanisms of heredity and infection in bacteria
how bacteria stick 1978 Jan p 86–95 [1379]	1961 June p 92–107 [89]
pacterial-cell wall, lysozyme, homeostasis, bacterial cytoplasm,	DNA, gene mapping, chromosome, mapping genes by induced and
protoplasts bacteriophage, flagella, dissection of bacteria by	spontaneous mutations 1962 Jan p 70-84 [120]
lysozyme 1960 June p 132–142	adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus herpes virus, influenza virus, vaccinia virus, tobacco mosaic
pacterial chromosome, autoradiography, DNA synthesis, labeled thymine, incorporation in DNA chain, relation of template and new	virus, structure of viruses 1963 Jan p 48–56
chain 1966 Jan p 36-44 [1030]	gene mapping, amber mutants, virus particles
bacterial conjugation, antibiotic resistance, bacteria, infectious disease,	1965 Feb p 70–78 [1004]
drug resistance, gene mutation, plasmids, Rh factor	virus structure, polyhedra, virus shell, assembly of T4 subunits from
1973 Apr p 18–27 [1269] bacterial cytoplasm, bacterial-cell wall, lysozyme, homeostasis,	core out 1966 Dec p 32-39 [1058] virus structure, T4 virus, DNA, mutation, morphogenesis, test-tube
protoplasts, bacteriophage, flagella, dissection of bacteria by	reconstruction of viral components 1967 July p 60-74 [1079]
lysozyme 1960 June p 132–142	receptor specificity, cell membrane, bacterial receptor sites, O antigen,
bacterial infection, antibiotics, aureomycin, virus disease, rickettsial	Salmonella 1969 Nov p 120–124 [1161]
disease, 'broad spectrum' antibiotic 1949 Apr p 18–23 blood proteins, gammaglobulin, antibodies, immunology, tissue grafts,	electrical attachment 1953 Aug p 44 one-molecule DNA virus 1958 July p 52
agammaglobulinemia, hereditary immunological deficiency	pili 1967 Dec p 55
1957 July p 93–104	bacteriophage structure, gene expression, latent viruses, provirus, virus
endotoxins, exotoxins, toxins, bacterial toxin, effects of endotoxins	action, coexisting viruses, viral genes in host chromosome
1964 Mar p 36-45 bacterial-cell surface, glycocalyx, infective specificity, how bacteria	1976 Dec p 102-113 [1347] badger, dog, horse cheetah, locomotion, deer, comparative anatomy,
stick 1978 Jan p 86–95 [1379]	running, how animals run 1960 May p 148-157
bacterial magnets, magnetic-field tropism observed in bacteria	Baffin Island, energy cycle, Eskimo, hunting societies, food chain, seal,
1978 Mar p 72	power, ecosystem 1971 Sept p 104-115 [665]
bacterial metabolism, bacterial cell, cell wall, penicillin, polysaccharides, glycopeptides, membrane 1969 May p 92–98	bags under the eyes, J.A M A colloquy 1951 May p 38 baking, yeast, brewing, riboflavin synthesis, cryptococcal meningitis,
glycopeptides, membrane 1969 May p 92-98 bacterial motility, bacteria, flagella, 'twiddling', rotation of flagella	fermentation, cell physiology, yeasts, useful and noxious
1975 Aug p 36-44	1960 Feb p 136–144
cell motility, chemotaxis, flagellar action, E.coli	balancing rock, capstones explained 1974 Mar p 46
1976 Apr p 40-47 [1337] bacterial resistance, antibiotics, infectious disease, toxicity, virus disease.	ball lightning, nuclear fusion, gas plasma, ionization, Kapitza theory, Hill theory 1963 Mar p 106-116
status of new medical technology 1949 Aug p 26–35	ballistic missile, see atomic weapons, ICBM, SLBM and the like
bacterial toxin, bacterial infection, endotoxins, exotoxins, toxins, effects	ballistics, shock waves, shadow photography, speed of sound, Mach
of endotoxins 1964 Mar p 36–45	cones, aerodynamics 1949 Nov p 14–19
tetanus, botulism paralysis, nerve impulse, inhibitory impulse synapse, motor neuron, Clostridium tetani, Clostridium botulinum	calone heat theory, science history, oven, Rumford heat as motion Benjamin Thomson, biography 1960 Oct. p. 158-168
1968 Apr p 69–77	balloon astronomy, Sun, ultraviolet radiation 1960 Oct p 158–168
plague bacillus Black Death respiration, electron transport,	spectrometry, Venus, infrared astronomy 1965 Jan p 28-37
mechanism of death by plague toxin 1969 Mar p 92-100 cholera, disease medical care, vanitation water supply, epidemiology	solar observatory 1957 Sept p 107
1971 Aug p 15–21	balsam, forestry, spruce, climax ecosystem birch, climax forest of Northeast U S 1948 Nov. p. 20, 23
bacterial transformation, gene transformation. Diplococcus pneumoniae.	balsam-fir factor, insecticide, insect hormones, insecticide resistance
extra-cellular activator of transformation competence	juvenile hormone, species specificity, DDT, third-generation
bacterial virus, see bacieriophage	pesticides 1967 July n 13 17 (1078)
bactenology, caries dentistry, fluoridation new theory of tooth decay	Bambuti, Pygmies, Congo, social anthropology, symbyotic relationship of jungle Pygmies and pastoral-village peoples
1948 Oct. p. 20–23	1963 Jan = 28 27 (615)
tuberculosis tuberele bacillus biology of the germ	bandwidth, Carriel-Wave Hiodulation, coaxial cable, communication
l955 June p 102-110 biological pest control agricultural pest insecticide, insect physiology,	technology, electromagnetic spectrum fiber optics radiowave.
Virology, enfomology living insecticides 1956 Aug n 06_104	Bantu language, Africa, Early Iron Age culture, language diffusion,
canes, dentisiry tooin enamer causes of tooth decay	1077 A 107 - 1
mutation penicillin drug resistance 1957 Dec p 109-116 1961 Mar p 66-71	bei parado e anunono, parador mathematical logic logic
1501 Mai p 60-71	undecidable questions Gödel's proof, Grelling's paradox,

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battered child syndrome, children's injuries

Epimenides' paradox, Zeno's paradox, paradox and foundations of	hatter fuel cell alexans
logic 1962 Apr. p. 84-96	battery, fuel eell, electric power generation, energy transformation, energy
symbolic logic, Dodgson, mathematics, paradox 1972 July p. 38-46	to electric energy
parinturates, hypnotics, tranquilizers, sedatives, anesthesia, pharmacology	electrochemistry, electric nower Volta, Galvani, Volta's contrabutors
Parloss Cooper Calabase 1958 Jan p 60-64	niography 1965 Jan n. 82-01
Barricon, Cooper, Schriever theory, see BCS theory	automobile, electric automobile, air pollution, weight, cost
barge transport, canals, technology history, transportation, in U.S.	performance of electric automobile 1966 Oct. p. 34-40
1976 July p 116-124 barium clouds, plasma, solar radiation, ionosphere, Larth inagnetic field,	ti v v v v v v v v v v v v v v v v v v v
geomagnetism, magnetosphere electric field artificial plasma clouds	of averages to norm 1977 May p 119-126 [363] BCS theory: Bardeen, Cooper, Schriever theory
from rockets 1968 Nov p. 80-92	BCS theory, crystal structure, electrical properties of metals, intermetallic
barley, agronomy, salt-tolerant crops 1976 Aug p 44D	compounds, intercalated crystals, superconductors, layered
barnacle, ATP, muscle contraction, calcium, bioliminescence, aequorin,	superconductors 1971 Nov p 22–33
Calcium ions in muscle construction 1970 Apr p 84–93 [1175] Birmard's star, a solar system 1969 June p 58	beaches, sand dunc, sand har, herm, ocean, surf, rip channels,
Burnard's star, a solar system 1969 June p 58 baronicter, meteorology, radiosonde, rain gauge, anemonieter,	conservation of beaches 1960 Aug p 80-94 [845]
hygrometer, instrumentation of ineteorology 1951 Dec p 64-70	bearing, friction, stick-slip friction, violin bow, lubrication, uses and prevention of friction 1956 May p. 109-118
barophilic bacteria, bacteria, deep-sea environment, deep sea nucrobes,	friction, mechanical engineering lubrication, sliding, rolling
Alvin submersible 1977 June p. 42–52 [926]	pressurized-contactless bearings 1966 Mar p 60-71
Barr body, sex differences, chromosome, genetic mosaic, cytology,	friction, gears, technology history, Leonardo, Codex Madrid I
Klinefelter's syndrome, Turner's syndrome, chromosomal nnomalies,	1971 Feb p 100–110
sex differences in tissue cells 1963 July p 54-62 [161] barred galaxy, gravitational collapse, galactic evolution, spiral galaxies	lubrication, friction, journal bearing, wear 1975 July p 50-64
elliptical galaxies, evolution from taxonomy 1956 Sept. p. 100–108	choice of metals 1955 Nov p 54 bears, cave bear, Ice Age, extinction mechanism 1972 Mar p 60-72
Baruch plan, arms race, USSR atomic bomb, Acheson-Lilienthal plan,	bedbigs, spiders, leeches, spermatozoon transfer, sponges, sexual
U.S. negotiating position nt termination of 'atomic inonopoly'	reproduction, unorthodox methods of sperm transfer
1949 Nov p 11–13	1956 Nov p 121–132
baryons, high-energy physics, mesons, 'strong' force, 'eightfold way',	bcc, animal navigation, crustacea, solar navigation 1954 Oct p 74-78
conservation laws, Regge trajectory, resonance 'particles', 'bootstrap'	bumblebee energetics, flower, symbiosis 1973 Apr p 96–102 [1270] insect behavior, ants insect eye, animal navigation, polarized light
hypothesis 1964 Feb p 74–93 [296] high-energy physics, hadrons leptons, mesons, quantum numbers,	1976 July p 106–115 [1342]
quark confinement, bag model, infrared-slavery model, string model	'dancing' communication 1962 Dec p 70
1976 Nov p 48-60	killer bees, reputation inflated 1976 Jan p 63
basal metabolism, Ama, diving, diving women, Korea, Japan, breathing,	bee dances, insect behavior, social insect, animal communication,
human physiology, adaptation 1967 May p 34-43	directional orientation, 'language of the bees'
hibernation, homeothermy, eireadian rhythm feeding behavior,	1948 Aug p 18-21 [21] animal communication, more on the 'language of the bees'
circannual rhythm, hypothalamus, squirrels, dormice in hibernation 1968 Mar p 110-118 [513]	1953 July p 60-64
basalt, Earth mantle, plastic zone, scismology, isostatic equilibrium,	insect behavior, social insect, evolution, evolutionary 'dialects' of
Mohoroviere discontinuity, plastic zone at depth between 37 and 155	'language of the bees' 1962 Aug p 78-86
miles 1962 July p 52–59	communication, honeybee, insect behavior, honeybee sound
base, protein structure, amino-acid sequence, gene-protein colinearity,	communication 1964 Apr p 116-124 [181] insect behavior, directional orientation, species specificity, evolution,
DNA structure, mutation, genc mapping 1967 May p 80-94 [1074] base triplets, DNA, genetic code, protein synthesis, nucleotide sequence,	communication by sound, by dancing 1967 Apr p 96–104 [1071]
codon, base triplet established as codon 1962 Oct p 66-74 [123]	insect behavior, pheromones, sex attractants, courtship display
baseball, properties of 'perfect curve' 1959 May p 71	1972 Sept p 52–60 [1280]
outfielder's trigonometry 1969 Jan p 49	Frisch work dazzles Thorpe 1949 Sept p 30 swarming warble 1955 Apr p 54
computer simulation 1974 Oct p 63	communication 1970 Oct p 60
knuckleball dynamics 1976 Jan p bass, cello, viola, violin, Chladni patterns, music, musical instruments,	beef, tenderizing process 1951 May p 32
physics of violins 1902 NOV p 70-75	beer, enzymes, yeast, brewing, fermentation, hops, chemistry and
bassoon, musical instruments, vibrating air column, clarinet, oboe, flute,	microbiology of brewing 1959 June p 90–100 heavy water in brewing process 1956 Aug p 54
English horn sayonhone physics of the Wood WINGS	heavy water in brewing process 1956 Aug p 54 beetle, cattle, coprid beetles, dung beetles 1974 Apr p 100–109
1960 Oct p 144–154	insect behavior, burying beetles, beetle reproduction
bat sonar, sonar, animal navigation, ultrasonic signal, bat navigation demonstrated in laboratory 1950 Aug p 52-55	1976 Aug p 84-89 [1344]
and the middle of the sound of the sounding, sensory	behavior, speech, facial expression, vocal display, nonverbal
morgantion supersonic sonar of Dats 1730 July P 40-47 [1.2.]	communication, facial expression in communication 1965 Oct p 88-94 [627]
botch process, automatic control, machine tool, digital-to alialogue	self esteem, child development, personality 1968 Feb p 96-106 [511]
conversion, numerical instructions, automatic machine tool 1952 Sept p 101–114	value judgments, pleasure 1968 Dec. p. 84–90 [518]
C-wales offset	encephalitis, hyperactive child, temperament, genetic disease, amphetamines, possibly innate disease syndrome
bathymetry, sonar, gravimetry, ocean 1100r, confinental sitch, seament	amphetamines, possioly inflate disease syndrolle 1970 Apr p 94–98 [527]
	aplysia neurones, learning, memory, synapse, heterosynaptic
A One of a control of the metry. Meteorology, 140 theast	facilitation, memory and learning at nerve cell level
Passage, ice-floe islands, marine biology, Soviet Andrew 88–102	1970 July p 57–70 [1182]
1958 Apr p 27–33	see also insect behavior, fighting behavior and the like, behavioral adaptation, courtship display, etc
1957 Nov p 105–114	behavior hinchemistry, cholinesterase correlation 1955 Feb p 58
auditory discrimination, bat sonar, sonar, ecno-sounding, school	behavior disorders, learning stress, animal behavior, slimulation in
nercention supersonic sonar of data	infancy 1960 May p 80–86 [436] behavior modification, ethical questions 1957 Jan p 58
	1974 May D 60
1903 Apr p 19073 Oct p 47	behavioral adaptation, termite, social insect, cell analogy, insect behavior
battered child syndrome, children's injuries 1972 Oct p 47	1953 May p 74–78

1965 July p 44 1966 May p 54

homeothermy, clothing, clothing and body-temperature control	New World archeology, Onion Portage site, Eskimo, human migration
1956 Feb p 109-116	Alaska, stone artifacts, gateway to America 1968 June p 24-3 Berlese funnel, cryptozoa, natural history, ecological niche, cryptosphere
birds, geographical distribution, speciation, ornithology, bird migration, adaptation, provinciality of birds 1957 July p 118–128	animal behavior, life under rocks and rotting logs
migration, adaptation, provinciality of birds 1957 July p 118–128	1968 July p 108–114 [111]
birds, camouflage, caterpillars, mimicry, defense by color 1957 Oct p 48-54	berm, beaches, sand dune, sand bar, ocean, surf. np channels,
penguin, sexual behavior, Antarctica, natural history	conservation of beaches 1960 Aug p 80–94 [84]
1957 Dec p 44–51	Bert, aviation medicine, medical history, Paul Bert, 'father' of aviation
'cold-blooded' animals, pigmentation, thermoregulation, lizard, reptile,	medicine 1952 Jan p 66–7
behavioral thermoregulation 1959 Apr. p 105–120	berylliosis, occupational health, phosphorus, fluorescent light, chelation, high technology disease 1958 Aug p 27-3
sand dune ecology, thermoregulation, succulent plants, symbiosis,	high technology disease 1958 Aug p 27-3 Manhattan Project casualty 1951 Jan p 2
adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99	beta chain, collagen, proteins, alpha helix, polypeptide synthesis,
ground squirrels, Mojave desert, animal behavior, kidney function,	polymers, amino acids, synthesis and architecture of proteins
thermoregulation, desert adaptation, desert mammals' adaptations	1957 Sept p 173-184 [
to heat and aridity 1961 Nov p 107-116	beta decay, neutrino, elementary particles, neutron decay, alpha decay,
alkaloids, butterfly, larvae, symbiosis, insect repellants, plant evolution,	setting trap for detection of theoretical particle 1956 Jan p 58-6
mimicry, butterfly-plant association 1967 June p 104-113 [1076]	neutrino, particle accelerator, muon neutrino, a particle interaction, 'weak' force, experiment demonstrating existence of muon neutrino
mouse, water retention, physiological adaptation, Mus musculus, commensal of man 1969 Oct p 103-110 [1159]	1963 Mar p 60-70 [324
commensal of man 1969 Oct p 103-110 [1139] Australia ecology, insect behavior, sand wasps, solitary insects,	alpha decay, transuranium elements, isotopes, nuclear stability,
Bembix 1975 Dec p 108–115	radioactive decay, 'synthetic' elements, periodic table, the
animal communication, firefly, bioluminescence, insect behavior,	'superheavy' elements beyond 103 1969 Apr p 56-6
synchronous flashing of fireflies 1976 May p 74-85	bubble chamber experiments, high-energy physics, hadrons, neutrino
behavioral genetics, cricket song, insect behavior, nervous system	beam, particle accelerator, positron 1973 Aug p 30-3 antimatter, bias for positive 1966 Aug p 4
1974 Aug p 34-44 [1302] behavioral psychology, Pavlov, conditioned behavior, biography and	Betelgeuse, giant star, photographic close up 1975 Feb p 4
appraisal of 1 P Pavlov 1949 Sept p 44-47	Bevatron: billion electron volt proton synchrotron
color vision, learning, conditioned behavior, Skinner box, visual	Bevatron, particle accelerator, cosmotron, high-energy physics,
discrimination, pigeons conditioned to respond to discrete	technology of high-energy physics moves into the Giga (billion) volt
wavelengths of light 1958 Jan p 77-82 [403]	range 1951 Feb p 20–2
emotional deprivation, maternal deprivation, rhesus monkeys,	antiproton, positron, proton, antimatter, high-energy physics, postulation and discovery of antiproton 1956 June p 37-41 [24
surrogate mother, infant monkey 'love' 1959 June p 68-74 [429] learning, visual perception, Fechner's law, psychophysics, Skinner box,	antimatter, high energy physics, antiproton, antineutron, cosmology,
conditioned behavior, pigeon perception 1961 July p 113–122 [458]	'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-3
conditioned behavior, learning, kinesthetic memory, place-learning	5 Bev 1954 May p 5
1963 Oct p 116–122 [479]	Bible, science teaching, evolution, religion, curriculum reform,
asocial behavior, criminal law, human behavior, punishment, criminology, milieu therapy, behavioral science and the criminal law	Darwinism, creationism, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–3
1963 Nov p 39–45 [480]	Biblical archeology, Jericho, Neolithic archeology, 'world's oldest city'
child psychiatry, autism, emotional illness, schizophrenia	1954 Apr p 76-8
1967 Mar p 78–86 [505]	Elamite culture, ziggurat, religion, Tower of Babel, 1000 B C, Iran
Skinner's utopia 1957 Jan p 58	1961 Jan p 68-7 Jerusalem, Palestine, city of Jebusites David, Herod
conditioned behavior, effect of reinforcement on learning 1958 Dec p 58	1965 July p 84-9
behavioral regression, child development, cognitive development, human	Mount Ararat, Urartu, Altıntepe, 800 B C culture at Noah's landing-
behav 3_47 [572]	place 1967 Mar p 38-4
Beilby laye	Arabia, irrigation, trade, Near East, frankincense, myrrh, cultures of
hypothesis 1968 June p 91–99 ferrograph analysis, friction, lubrication, machine wear, metal fatigue,	southern Arabia 1969 Dec p 36-46 [65] Dead Sea scrolls, Judaism, New Covenanters, Qumran site
particles of wear, wear 1974 May p 88–97	1971 Nov p 72–8
bell shrike, animal communication bird song bird duets	Jericho, oldest city 1956 Nov p 6
1973 Aug p 70–79 [1279]	Jericho, from cave to village 1957 Sept p 11
bellows, science history, technological innovation, windmills, pumps, blast furnace, medieval technology, medieval uses of the air	bibliography of the atom, atom, UN Atomic Energy Commission
1970 Aug p 92–100 [336]	l948 Oct p 2 bicycle technology, technology history, economic development
Bence-Jones proteins, amino-acid sequence, antibodies, antibody	1973 Mar p 81–9
molecule, immunoglobin heavy chain, light chain, antigen-antibody	stability, steering geometry 1970 May p 5
complex 1967 Oct p 81–90 [1083]	17-pound plastic bike 1973 May p 4
antibody molecule myeloma immunoglobin, antigen binding amino- acid sequence antibody amino-acid sequence determination	'big bang' theory, cosmology, universe evolution, universe, space curvature, according to Gamow 1956 Sept. p. 136-15
1970 Aug p 34-42 [1185]	curvature, according to Gamow 1956 Sept p 136-15 cosmology, universe expansion cosmic background radiation, low-
Benford's Law, probability, digits number theory, first-digit distribution	energy radiowaves, isotropy, primeval fireball, helium abundance
Bentles's compound analysis market and 1969 Dec p 109–120	'big bang' theory and cosmic background radiation
Bentley's compound, analgesies morphine, opium, poppy, heroin, codeine, drug action, search for strong safe analgesie	1967 June p 28–3
1966 Nov. p. 131-136 [304]	deuterium-hydrogen ratio, deuterium synthesis, cosmology, heavy hydrogen, interstellar matter 1974 May p 108-11
benzene, carbon chemistry, chemical accelerators origins of life, high-	cosmic background radiation evolutionary universe, universe
energy carbon reactions 1975 Jan p 72-79 benzene derivatives, aromatic hydrocarbons molecular structure,	expansion radio galaxics 1974 Aug n 26 3
aromaticity 1972 Aug to 32–40	cosmology, 'closed' universe, 'open' universe, universe expansion
Bering land bridge, New World archeology MacKenzie river human	deuterium abundance age of elements average density
migration 'How man came to North America' 1951 Ian n 11-15	1976 Mar p 62-7
plant migration oceanography, New World archeology, animal migration, continental shelf, glaciation Wisconsin glaciation,	in 3-degree Kelvin radiation 1978 May n 64 74 1200s
animal plant migration Asia-North America 1962 Jan p 112–123	quasar recession velocities, primordial radiation detected
p 112 125	1965 July p. 4

cosmic background radiation

fiddler crab, circadian thythm

tee also primordial fire ball, cosmic background radiation. Blg Thompson disaster, cloudburst and flash flood. 1977 Apr. p. 60 billuteral symmetry, left-right asymmetry, nurror images, central nervous system. 1971 Mar. p. 96-104 [535] billingualism, language, communication, reading, information processing.	adrenal gland, pineal organ, estrogens, progesterone, melatonin, serotonin, pineal regulation of sex glands 1965 July n. 50-60 (1015)
learning 1968 Mar p 78-86 visual perception, dyslexia, eye movement, grammatical relations,	maiaria, Plasmodium, parasitism, reproduction, gametocyte, mosquitoes 1970 June p. 123-131 [1181]
language, reading, perception of words 1972 July p 84-91 [545] billion electron volt proton synchrotron, see llevatron	animal behavior, circadian rhythm, eircannual rhythm, hibernation, animal migration, manic depression 1971 Apr p 72-79 [1219] circadian rhythm, house sparrow, photoperiodicity, pincal organ,
bin-packing, scheduling, combinatorial analysis, algorithms, critical path scheduling, mathematization of efficiency	nonvisual light receptors 1972 Mar p 22-29 [1243] honling behavior, bird navigation 1974 Dec. p. 96-107 [1311]
binary nrithmetle, computer technology, digital computer, analogue computer, relay computers, logic, automatic control, computer memory, control systems, status of 'mathematical machines'	crabs, diatoms, marine algae, sand hoppers, tidal-zone organisms, tidal rhythms, integration of biological and sidereal cycles 1975 Feb p 70-79 [1316] artificial light, sunlight, suntanning, vitamin D, body's response to light
1949 Apr p 28-39 number theory, magic squares, prime number, composite numbers	1975 July p 68-77 [1325]
1951 July p 52-55 computer technology, information theory, computer industry,	metabolism photoperiodicity 1976 Feb p 114-121 [1335] fiddler crabs 1955 Oct p 46
computer privacy, computer applications, introduction to single- topic issue on information processing 1966 Sept. p. 64-73	unicorn's lunar rhy thm 1957 July p 68 temporal relations, time perception, temperature time interrelation,
computer technology, integrated circuits, switching elements, logic	Lappa movement effect 1964 Nov p 116, 124
circuits, computer memory, microelectronics, hardware of computer 1966 Sept. p. 74-85	enzyme oscillations 1967 Oct p 50 see also circadian rhythm
communication technology, pulse-code modulation, digital transmission, television, transmission quality, telephone, AM, FM	biological energy, energy, power machines, mechanical energy, economic development, power, introduction to a single-topic issue on energy
1968 Mar. p 102-108	and power 1971 Sept p 36-49 [661]
computer technology, maximum computer speed 1968 Oct p 93-100 Boolean logic, integrated circuits, large-scale integrated circuits, logic	biological form, regeneration, cell differentiation, cellular polarity, embry onic development. Hydra, morphogenesis, morphogens
elements, microelectronics 1977 Sept. p. 82–106 [376] binary code, Bacon's cipher, Boolean algebra, computer history, science	1974 Dec p 44-54 [1309] biological nitrogen fixation, nitrogen, ammonia, nitrifiers denutrifiers
history, Jacquard loom, punched eards 1972 Aug p 76-83	mtrogen cycle, legumes 1953 Mar p 38-42 ammonia manulacture, Haber process, metallo-organic process,
binary numbers, chimpanzee, symbolic language, learning, operant conditioning, animal behavior, chimpanzee learning arithmatic	nitrogen fixation 1974 Oct p 64-70
1964 May p 98-106 [484] names for 'thinking binary' 1958 Not p 62	biological oxygen demand, water pollution, sewage treatment, radioactive waste disposal, stream pollution 1952 Mar p 17-21
binary search trees, algorithms, computer language, computer programming, hash table 1977 Apr p 63-80	biological pest control, bacteriology, agricultural pest, insecucide, insect physiology, virology, entomology, living insecticides
binary stars, solar system, stellar evolution 1949 Oct p 42-45	1956 Aug p 96-104 serew worm fly, X-ray, sterilization, pest control, cattle, eradication of
dust cloud hypothesis, photophoresis, gravitational collapse, element abundance, angular momentum, origin of the Earth	the screw worm fly 1960 Oct p 54-61
1952 Oct p 53-61 [833] dwarf stars, degenerate gas, gravitational collapse, white dwarfs, 'dying'	gypsy moth, pheromones, olfactory receptors, sex attractants, silk moth, chemotaxis communication 1974 July p 28-35 [1299]
stars 1959 Jan p 46-53 extraterrestrial life, stellar evolution, main-sequence stars, probability	biological sciences, mathematics, self-reproducing machine, nerve impulse, predation, Turing machine, automata theory, mathematics
of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55-63	in biology 1964 Sept. p. 148-164 international program 1967 May p. 55
stellar evolution, tidal effects, gravitation effects, contact binaries,	biological warfare, US multary enterprise 1949 Apr p 26
stellar fission 1968 June p 34-40 neutron stars, black hole, pulsar, quasars, X-ray astronomy, X-ray	'biological' water, 'anomalous' water, blood, hemoglobin, water,
sources 1972 July p 26–37 black hole, Cygnus X-1, black hole search 1974 Dec p 32–43	membrane permeability, osmosis, erythrocyte van 't Hoff law 1971 Feb p 88-96 [1213]
dense stars supernovae X-ray hinary stars 1975 Mar p 24-35	biological wax, copepod lipids, coral reef wax, marine wax, metabolic fuel, food chain 1975 Mar p 76-86 [1318]
black hole, galactic energetics, globular cluster stars, neutron stars, stellar evolution, X-ray stars, astronomy satellites, 'bursters'	biological weapons, bacteria, chemical weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical-
1977 Oct p 42-33 [363] 1952 Aug p 36	biological warfare 1970 May p 15-25 [1176] biology, evolution, philosophy of science, natural selection, creativity,
Bingham plan, medical care, community hospital, medical center, general	innovation in biology 1958 Sept p 100~113 [48]
2 land mology	biology research ship, Amazon expedition 1967 Mar p 50 bioluminescence, glow worm, firefly, abyssal fish, luciferase, 'cold light'
binocular vision, infant development, visual perception, operant conditioning, developmental psychology, information processing space, size, shape perception in human infants 1966 Dec p 80-92 [502]	abyssal life, ocean abyss, marine biology, fauna at 4000 meters 1957 Nov p 50-57 photosynthesis, chlorophyll, carotene, retinene, vision, photobiology,
depth perception, eye, neurophysiology, optic chiasm, stereopsis, visual 1972 Aug p 84-95 [1255] cortex random dot stereograms, stereogram experiments, vision, visual 1976 Mar p 80-86 [569]	photosynthesis, chlorophyn, carochic, remeric, vision, photobology, phototropism, sunlight, life and light 1959 Oct p 92–108 electric fishes, sodium ion potential, electroplaques, neurophysiology, synapse, acetylcholine, animal behavior, nerve impulse
perception perception cotton and evole metabolism, co-enzymes,	1960 Oct p 115-124 membrane potential, plant cell, calcium pump, ion potential, electricity
sulfa drugs, antibiotics, science, blooms 1950 Sept p 62–68	in plants 1962 Oct p 107–117 [136]
bioelectricity, animal behavior, physiological psychology, electrically controlled behavior 1962 Mar p 50-59 [464]	chemotaxis, biochemistry of bioluminescence 1962 Dec p 76–89 [141]
biofeedback, see autonomic nervous sytem biological clock, sleep, body temperature, waking 1952 Nov p 34-38 [431] 1954 Apr p 34-37	ATP, muscle contraction, calcium barnacle, aequorin, calcium ions in muscle construction 1970 Apr p 84-93 [1175]
fiddler crab, circadian thythm	

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fish, fish-scale crystals, tapetum lucidum, optics under water,	bird navigation, spatial orientation, animal navigation, celestial
camouflage 1971 Jan p 64-72 [1209]	navigation by birds 1958 Aug p 42-47 [133]
animal communication, behavioral adaptation, firefly, insect behavior,	bird navigation, blackpoll warbler, celestial navigation, indigo bunting,
synchronous flashing of fireflies 1976 May p 74-85	planetarium experiments 1975 Aug p 102-111 [1327]
bacteria, fish, flashlight fishes, symbiosis 1977 Mar p 106–114	bird navigation, bird migration, homing behavior 1948 Dec p 18-25
biomass, ecology, energy cycle, solar energy, food chain, element	guacharos, sonar, 'oil birds' 1954 Mar p 78–83
abundance, autotrophs, heterotrophs, the ecosphere	spatial orientation, animal navigation, bird migration, celestial
1958 Apr p 83–92	navigation by birds 1958 Aug p 42-47 [133]
carbon dioxide 'window', atmosphere, chmate, ocean sediments,	homing behavior, biological clock 1974 Dec p 96-107 [1311]
humus, 'greenhouse effect', threat of 'greenhouse effect'	bird migration, blackpoll warbler, celestial navigation, indigo bunting,
1978 Jan p 34-43 [1376]	planetarium experiments 1975 Aug p 102–111 [1327]
biorhythm, see circannual rhythm, circadian rhythm, biological clock	bird nervous system, animal behavior, learning, cerebral cortex, striatum,
biosphere, Earth, evolution, photosynthesis, environment, atmosphere-	crows, pigeons, canaries, chickens 1968 June p 64-76 [515]
hydrosphere cycles, introduction to single-topic issue on biosphere	bird song, animal communication, learning, innate behavior, animal
1970 Sept p 44-53 [1188]	behavior 1956 Oct p 128–138 [145]
wind, solar radiation, energy cycle, albedo, atmospheric circulation,	communication, songbirds, syrinx, mechanism of sound production
climate, ocean circulation, terrestrial radiation, carbon dioxide	1969 Nov p 126–139 [1162]
'window'. Earth energy cycle 1970 Sept p 54–63 [1189]	animal communication, bell shrike, bird duets
'window', Earth energy cycle 1970 Sept p 54-63 [1189]	1973 Aug p 70-79 [1279]
solar radiation, photosynthesis, agricultural ecosystem, climax	correlated with behavior 1955 Sept p 80
ecosystem, energy cycle, ecosystem, food chain, respiration, biosphere energy cycle 1970 Sept p 64-74 [1190]	birds, geographical distribution, speciation, ormithology, behavioral
	adaptation, bird migration, adaptation, provinciality of birds
water cycle, transpiration, evaporation, runoff, agricultural system,	adaptation, one migration, adaptation, provinciality of ords
ocean, precipitation, photosynthesis 1970 Sept p 98–108 [1191]	
chloroplast, oxygen cycle, photosynthesis, aerobic metabolism, ozone,	camouflage, caterpillars, mimicry, behavioral adaptation, defense by color 1957 Oct p 48-54
oxidation-reduction reactions, geological record, oxygen-carbon	
balance 1970 Sept p 110–123 [1192]	finches, mimicry, parasitism, sexual behavior, widow birds, animal
calcium carbonate, carbon cycle, sedimentary rock, photosynthesis,	behavior 1974 Oct p 92–98
fossil fuel combustion, atmosphere, carbon dioxide	dinosaurs, ectothermy, endothermy, metabolism, birds descended from
1970 Sept p 125–132 [1193]	dinosaurs 1975 Apr p 58–78 [916]
bacteria, nitrogen cycle, nitrogen fixation, blue-green algae, Haber	Birmingham, high-energy physics, Manchester, report on visit by Leopold
process, nitrate, legumes, eutrophication	Infeld 1949 Nov p 40–43
1970 Sept p 136–146 [1194]	birth control, male fertility, spermatozoon count, ovulation timing
ATP, mineral cycles, phosphorus cycle, sulfur cycle, sulfur bacteria,	1950 May p 16–19
carboxylation cycle, eutrophication, mineral cycles in the biosphere	contraception, reproduction, ovulation, nidation, fertilization
1970 Sept p 148–158 [1195]	1954 Apr p 31–34
human population, food production, fertilizers, pollution, irrigation,	population growth, Malthusian doctrine, developing countries, food
agricultural revolution, soil erosion, biosphere capacity to produce	production, Juhan Huxley on world population growth
food 1970 Sept p 160–170 [1196]	1956 Mar p 64-76 [616]
energy demand, thermal pollution, Industrial Revolution, energy	birth rate, family planning, family size, contraception, US population
technology, fossil fuel cycle, carbon dioxide, industrial emissions,	trends, acceptance of contraception 1959 Apr p 50-55
modification of natural cycles by man 1970 Sept p 174-190 [1197]	family planning, population growth, economic development,
recycling, material resources, nonrenewable resources, inorganic-	promotion of birth control in Taiwan 1964 May p 29-37 [621]
materials cycle 1970 Sept p 194–208 [1198]	abortion, infant mortality, maternal mortality, public opinion, legal
energy cycle, photosynthesis, respiration, power, radiation energy, solar	status, incidence in US and other countries
radiation, terrestrial radiation 1971 Sept p 88–100 [664]	1969 Jan p 21–27 [1129]
continental drift, marine biology, ocean evolution, Pangaea, plate	human population, India, infant mortality, family planning, medical
tectonics 1974 Apr p 80–89 [912]	care, experience in an Indian village 1970 July p 106-114 [1184]
M1T study of critical environmental problems 1970 Sept p 78	celibacy, disease, foundling institutions, infanticide, Malthusian
biotin, B vitamin, ATP, function of little known B vitamin	doctrine, marriage age, population growth, population control in
hynodel walking hymnog avalutes, hymnog watchers a class lawy healt	Europe 1750-1850 1972 Feb p 92–99 [674]
bipedal walking, human evolution, lumbar vertebrae, pelvis, lower-back	abortion, contraception, family planning, population control, public
pain, 'scars of human evolution' 1951 Dec p 54-57 [632] locomotion, walking, primates, human evolution, muscle, bone, fossil	policy in U S 1973 July p 17–23
record, origin of human walking 1967 Apr p 56–66 [1070]	reproductive physiology, sex hormones, human population
birch, forestry, spruce, climax ecosystem, balsam, climax forest of	1974 Sept p 52-62 developed countries, demographic transition, human population, zero
Northeast U S 1948 Nov p 20–23	normalition growth 1074 Seed to 108 120
bird boncs, avian respiratory system, breathing, lung structure	population growth 1974 Sept p 108-120 abortion, population, public health, infant mortality, maternal
1971 Dec p 72–79 [1238]	mortality, international comparison of experience with legalization
bird flight, aerodynamics, airfoil, soaring, thermal cells	of abortion 1977 Jan p. 21–27 (1348)
1952 Apr p 24–29	of abortion 1977 Jan p 21–27 [1348] intrauterine device 1964 Jan p 54
aerodynamics, weight-strength ratio, bone structure, respiratory air	family planning, US public health 1965 July p 46
sacs, birds as flying machines 1955 Mar p 88-96	Japan population growth 1971 July p 43
soaring, wind velocity, thermal cells, air currents, aerodynamics,	population growth assessed 1971 Oct p 40
ornithology, flight of soaring birds 1962 Apr p 130-140	family planning in the People's Republic 1972 Nov p 50
metabolism, energy output, wind tunnel experiments, gull, budgerigar	in U S S R. 1973 Jan p 46
1969 May p. 70–78 [114])	birthrate decline in US 1973 Feb p 46
alhatross, evolution, animal behavior, sexual behavior, soaring, natural	demographic transition, in China 1973 Nov p 49
history 1970 Nov p 84–93 112041	ethics 1974 Sept. p. 64
gliding birds, soaring vultures, thermal cells, lift phenomena	industrial societies approach zero population growth 1978 May p 81
1973 Dcc p 102–109	see also family planning contraception
aerodynamics, animal behavior, insect flight, clap-fling mechanism, flip	birth rate, birth control, family planning, family size, contraception, U.S.
mechanism, hovering flight, lift generation	population trends, acceptance of contraception 1959 Apr n 50 55
bird missester, her? 1975 Nov. p. 80–87 [1331]	abortion, population, marriage rate, death rate, vital statistics
	menarche, infant mortality, 1538-1812, parish registers. York,
ornithology, behavioral adaptation, adaptation, provinciality of birds 1957 July p 118-128	menarche, infant mortality, 1538-1812, parish registers York, England 1970 Jan p 105-112

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population growth, gross reproduction rate, n	et remaductum run	estence listory, technological innovation, wir modes at technology, modes at uses of the	idmills pumps bellows
extrapolition from world statistics population	ा भाग्वीती		1970 Aug. p. 92-100[336]
death rate, demographic transition, hum in popu	173 Mar p. 15 23 1683	blast waves, atomic bomb, property damage	1953 Apr p 94-102
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mortality rates, population explosion, developin	e countries human		1970 Dec p 44-54 [127]
population	1974 Sept p 145 159	blistula, cell differentiation embryonic develop fertilization ectoderm, mesoderm endoder	ment gastrula m embrodovical
n talist policy in USSR	1952 Oct p 41	'off thizer', science lustors, review of classic	al embryology
US population US population	1965 June p. 56	i e e e e e e e e e e e e e e e e e e e	1957 Nov p 79-88 [107]
US, zero popul thou growth	1965 Apr p 49		expedition
contraception, U.S	1971 Apr p 50 1972 Oct p 46		1953 Var p 88-94
birth trauma, brain damage, cerebral palsy, asphys experiments, implications for human infants	ia, monkey	,	1955 June p 82-91
	50 Oct p. 76 54 [1158]	blind landing, aircraft landing, automatic pilot, a	ir transport, instrument
bison, Paleo-Indians, hunting, Olsen-Chubbuck site	c. New World	Unding system precision approach radar, g	1964 Mar p 25-33
archeology, reconstruction of bison himt, kill,	butchering	bilindness, premiture infants, retrolental fibropla	sia enidemiology.
	1967 Jan p 41-52	oxygen infant mortality, 'blind babies'	1955 Dec p 45-43
bites by humans, no fatalities Bitter solenniil, magnetic field, magnetism, superco	1951 Jan p 30		1959 Aug p 110-117
National Magnet Laboratory	1965 Apr. p 66-78	neonat il disorder, medical ethics, premature in	iants, medicai
bivalves, clams, marine life, mollinsks, symbiosis	1975 Apr p 96-105	recearclies, retrolental fibroplasia, 'blind bab 1977	June p 100-107 [1361]
BL Lacertae objects, galaxies, quasars, radio astron	omy	type made tactile for 'reading'	1974 Jan p 31
19	77 Aug p 32-39 [372]	phosphenes, 'sight' for blind	1974 Mar p 49
black body, quantum mechanics, Planck, science his	story, spectroscopy,	block fault, geology, tectonic processes, mathemat	1961 Feb p 96-106
resonators, Einstein, photoelectric effect. Com jumps 19	pion cirect, quantum 52 Mar p. 47-54 [205]	geosynchine, experimental geology 'block portraits', visual perception, information th	
black body radiation, heat, thermodynamics, quanti	im mechanics.	graphies, computer enhancement, pattern rec	CONTROL TECOMILLON
entropy, equation of state, energy, temperature	. What is heat?	tarres	(7/) (101)
	1954 Sept p 58-63	blood, comparative physiology, ice fish, oxygen, he	emoglobin, Antarene
Black Death, epidemiology, finnian behavior, bubor		fish without red cells or hemoglobin	[402 MA D 100 11
health, population history, long-term effects of 50 1964	Feb p 114-121 [619]	'anomalous' water, 'biological' water, hemoglob, permeability, osmosis erythrocyte, van 't Hol	t 1488
bacterial toxin, plague bacillus, respiration, electr		193	71 Feb p 88-96 [1213]
mechanism of death by plague toxin	1969 Mar. p 92-100	see also frozen blood cells	
black hole, gravity, stellar evolution, space-time con		blood banks, blood plasma, blood fractionation, er	1954 Feb p 54-62
collapse, thermal pressure, singularity, gravitati	onal radius 1967 Nov. p. 88–98	platelets centrifuge, blood transfusion blood-brain barrier, epilepsy, brain metabolism, nei	
gravitational waves, neutron stars, pulsar, relativit stars, rotational energy, white dwarfs		neurophysiology, physiology of the barrier and	lus reinforcement 1956 Feb p 101-106
binary stars, neutron stars, pulsar, quasars, X-ray	astronomy, X-ray 1972 July p 26-37	blood cell analysis, automatic cell sorting computer lymphocy tes, pattern recognition, automatic at	analysis,
gravitational energy, pulsar, quasars, rotational en			1970 NOV P 12 02
universe	1973 Feb p 98–105	blood circulation, Harvey, science history, life and w	ork of Wilham 1952 June p 56-62
binary stars, Cygnus X-1, black hole search	1974 Dec p 32–43	Harvey capillary bed, mesentery, arteriole, venule, cardio	accular system
interstellar gas, magnetohydrodynamics, neutron s evolution, supernovae, X-ray sources	1975 Dec p 38-46		1959 Jan p 34-00
cosmic radiation, gamma-ray astronomy, neutron s		exercise adaptation, breathing, heart, hemoglobin,	human physiology May p 88-96 [1011]
gravitational fields, quantum mechanics, relativity		blood clotting, Dicumarol, anticoagulant therapy, the	rombus 1951 Mar p 18-21
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stellar evolution. X-ray stars, astronomy satellite	s, bursters	mechanism	1961 Feb p 38-04
197	7 Oct p 42-55 [385] 1970 Oct p 54	hemagglutination, fibrinogen, molecular biology, to of thrombin in converting fibrinogen into fibrin	hrombin librii, loic
elliptical galaxies	1970 Oct p 34	blood disorders, anemia, brain damage, environmenta	il toxins, kidney
'collapsar', Epsilon Aurigae candidate in Cygnus	1973 Nov p 48	disorder, lead poisoning, nerve disorders 1971	Feb n 15-23 [1211]
variable X-ray sources	1976 Aug p 44B	blood donors, Red Cross campaign blood fractionation, poliomyelitis, gammaglobulin, ep.	1948 Sept p 28
	1961 Apr p 84	immunity, vaccine	1953 July p 25-29
black power, American Negro, racial discrimination,		blood plasma, erythrocyte, leukocyte, platelets, cent	rifuge blood
economic power, ethnic groups, states,	Apr p 21-27 [633]	transfusion, blood banks	1954 Feb p 54-62
Black Sea, Tethys Sea, Mediterranean Sea, sea level, 8	geological history of	more fractions on market more by-products	1949 Sept p 32 1950 Sept p 51
		portable fractionator	1951 Sept p 54
Blackett hy pothesis, geomagneusm, permanent magne	neories on origin of	blood groups, immune response, Rh factor, Rh incomp	
electromagnetism, Eisasser-Hallard Hypothe	1950 June p 20-24	genetic drift, mutation, consanguinity, gene pool, evo	ov p 46-52 [1126] olution, population
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blast furnace, steel production, non-	1948 May p 54-57		
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olood pressure, learning, autonomic nervous system, heart rate, curare, electrocardiography, learning voluntary control of autonomic	Bok globules, galaxy structure, interstellar matter, Milky Way, stellar formation, supernovae, galactic dust clouds, nebulae, Gum Nebula
nervous system 1970 Jan p 30–39 [525]	1972 Aug. p 48–61
human physiology, autonomic nervous system, transcendental	gravitational instability, interstellar clouds, interstellar dust, stellar
meditation, yoga, Zen Buddhism, physiology of meditation	formation, local galaxy 1977 June p 66–81 [366]
1972 Feb p 84–90 [1242]	bomb craters, cratering, ecological warfare, defoliation, laterization,
1972 Teb p 0.756 (22.15)	Vietnam war 1972 May p 20–29 [1248]
comparative physiology, extravascular pressure, breathing, giraffe resouration 1974 Nov p 96-105 [1307]	bombers, arms race, SALT, AWACS, strategic weapons military
	expenditures, anuarcraft sytems 1973 Aug p 11–19
science history, plant physiology, sap flow, Stephen Hales's work	arms control, SALT, cruse missiles, strategic weapons Carter
1976 May p 98-107	administration 'comprehensive proposal' for US-USSR. force
blood proteins, bacterial infection, gammaglobulin, antibodies,	
ımmunology, tissue grafts, agammaglobulinemia, hereditary	
immunological deficiency 1957 July p 93–104	bone, calcium, muscle fiber, mitotic spindle, calcium and life
blood transfusion, shock, traumatic sbock, capillary bed, electrolyte	1951 June p 60–63
balance cardiovascular system 1952 Dec. p. 62–68	calcium, cartilage, feedback, hydroxy apatite crystal, osteoclasts
blood plasma, blood fractionation, erythrocyte, leukocyte, platelets,	1955 Feb p 84–91
centrifuge, blood banks 1954 Feb p 54-62	amino acids, fossil mollusk shells, paleontology, paleobiochemistry
self-donated blood 1972 Jan p 47	1956 July p 83–92 [101]
see also cross transfusion	piezoelectricity, osteogenesis, collagen, calcium metabolism, bone
blood typing, Rh factor, buman evolution, Rh negative gene, Ro gene,	adaptation to mechanical stress 1965 Oct p 18-25 [1021]
race 1951 Nov p 22-25	locomotion, walking primates, human evolution, bipedal walking
Dunkers, geneuc drift, endogamous group, ear lobes 'hitch-hiker's'	muscle, fossil record origin of human walking
thumb 1953 Aug p 76–81 [1062]	1967 Apr p 56-66 [1070]
parentage, forensic medicine 1954 July p 78–82	bunting societies, Neolithic archeology. Neolithic village, Suberde site
American Negro, skin color, recessive gene, marriage preferences	in Turkey 1968 Nov p 96–106
population genetics, genetic meaning of race 1954 Oct. p 80–85	evolution horn, antler, osteogenesis, keratin, ungulates, differences
Judaism, racial discrimination, religious persecution, social evolution,	between horns and antlers 1969 Apr p 114-122 [1139]
genetic drift, population genetics, Jewish community of Rome	calcium metabolism, eggshell, chicken, calcite, mobilization of calcium
1957 Mar p 118–128	from bone 1970 Mar p 88–95 [1171]
10.00 50	calcitonin thyroid, metabolism calcium metabolism, human
7	physiology, hormone, recognition and characterization of calcitomin
	1970 Oct p 42–50
blowfly, taste receptors, chemoreceptor 1961 May p 135-144 blue-green algae, Antarcuca, fauna, flora, licbens, ecology, Antarcuca	bone age', adolescence, child development, medical care, growth
	bormone, menarche, heredity vs environment 1973 Sept. p 34-43
terrestrial life 1962 Sept p 212-230 [805] bacteria, symbiosis, algal bloom, simplest plants, resemblance to	bone cancer, chelation, hemochromatosis lead poisoning, pharmacology,
bacteria symbiosis, aigai biooni, simplest plants, resemblance to	drug action, Wilson's disease metal poisoning, heavy metal
bacteria, nitrogen cycle, nitrogen fixation, Haber process, biosphere,	poisoning, salicylates, aspirin cancer therapy, chemotherapy,
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bacteria, fossil cells, evolution, Gunflint cherts, origins of life	bone graft, preventing graft rejection 1956 Aug p 54
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	bone marrow, mouse-rat myorid
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1971 May p 30–42 [395]	
1971 May p 30-42 [395] blue-green bacteria, algae, algal bloom, cyanobacteria, gas vacuoles 1977 Aug. p 90-97 [1367]	bone marrow transplantation, kidney transplant, unmune response,
1971 May p 30-42 [395] blue-green bacteria, algae, algal bloom, cyanobacteria, gas vacuoles 1977 Aug. p 90-97 [1367]	bone marrow transplantation, kidney transplant, immune response, radiotherapy, circumventing immune response 1959 Oct p 57-63 bone-seekers', poisons, ionizing radiation, radioautography, chelate, scintillation counter 1955 Aug p 34-39
1971 May p 30-42 [395] blue-green bacteria, algae, algal bloom, cyanobacteria, gas vacuoles	bone marrow transplantation, kidney transplant, immune response, radiotherapy, circumventing immune response 1959 Oct p 57-63 bone-seekers', poisons, ionizing radiation, radioautography, chelate,
l971 May p 30-42 [395] blue-green bacteria, algae, algal bloom, cyanobacteria, gas vacuoles 1977 Aug. p 90-97 [1367] 'blue haze', air pollution, smog. atmospheric inversion, particulates, ozone, perovides, photochemistry 1955 May p 62-72 blue jay, predation, plant towns, food cbain, milkweed predator-prey	bone marrow transplantation, kidney transplant, immune response, radiotherapy, circumventing immune response 1959 Oct p 57-63 'bone-seekers', poisons, ionizing radiation, radioautography, chelate, scintillation counter 1955 Aug p 34-39 bone structure, bird flight, aerodynamics, weight-strength ratio, respiratory air sacs, birds as flying machines 1955 Mar p 88-96
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blue-green bacteria, algae, algal bloom, cyanobacteria, gas vacuoles 1977 Aug. p 90-97 [1367] 'blue haze', air pollution, smog, atmospheric inversion, particulates, ozone, perovides, photochemistry 1955 May p 62-72 blue jay, predation, plant tovins, food chain, milkweed predator-prey relationship, mimicry, ecology, chemical defense against predation 1969 Feb p 22-29 [1133] blue whale, sonar, krill, food chain, whaling natural history of the largest animal 1956 Dec p 46-50 Antarctica, oceanography, marine biology, food chain, krill, ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186-210 Antarctic convergence, whaling industry, endangered species, International Whaling Commission 1966 Aug p 13-21 body fluids, homeostasis, wound shock, sbock, emergency medicine, treatment of shock 1958 Dec p 115-124 body-organ reversal, ciliary immobility 1976 Sept p 68 body temperature, hibernation metabolic rate, thermoregulation animal behavior 1950 Dec p 18-21 sleep biological clock, waking 1952 Nov p 34-38 [431] hummingbird metabolism, thermoregulation, hibernation surface tovolume ratio 1953 Jan p 69-72 shrews metabolism thermoregulation, surface-to-volume ratio 1954 Aug. p 66-70 hibernation hypothermia, surgery, shock, metabolism, artificial lowering of body temperature for surgery and shock. 1958 Mar p 104-114	bone marrow transplantation, kidney transplant, immune response, radiotherapy, circumventing immune response 1959 Oct p 57–63 'bone-seekers', poisons, ionizing radiation, radioautography, chelate, scintillation counter 1955 Aug p 34–39 bone structure, bird flight, aerodynamics, weight-strength ratio, respiratory air saes, birds as flying machines 1955 Mar p 88–96 bookkeeping, accounting, systems design, computer technology, computer decision making, uses of computers in organizations 1966 Sept p 192–202 Boolean algebra, symbolic logic, switching circuits, paradox 1950 Dec p 22–24 logic machine, Stanhope demonstrator, symbolic logic, syllogisms 1952 Mar p 68–73 Bacon's cipher, binary code, computer history, science history, Jacquard loom, punched cards 1972 Aug p 76–83 Boolean logic, binary arithmetic, integrated circuits, large-scale integrated circuits, logic elements, microelectronics 1977 Sept p 82–106 [376] boomerang, aerodynamics, airfoil, computer graphics, actual and theoretical boomerang orbits 1968 Nov. p 124–136 borane fuels, boron, metalloid element, crystal structure, properties and applications of boron compounds 1964 Jan p 88–97 borazon, artificial diamonds lithosphere, ultra-high pressure, coesite, properties of matter under 2 × 10 ⁵ p s 1 1959 Nov p 61–67 production process 1957 Apr p 69 Bordes method, stone tools, tool assemblages, multivariate analysis, factor analysis, computer analysis, Paleolithic archeology, stone tools as fossils of behavior 1969 Apr p 70–84 [643] boredom, electroencephalography, perceptual isolation, hallucination, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Lan p 87, 56, 64201
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boson, high-energy physics, mesons, v-particles	, fernuon, the multiplicity	brain damage, birth trauma, cerebral palsy, asphyxia, monkey
of particles	1952 Jun p 22-27	experiments, implications for human infants
cosmic rays, interniediate boson	1971 Oct p 42	1060 Oct p 76 84 t11501
high-energy physics, fermion, guage theory	1977 Mar p 61	speech, writing, brain hemispheres, cerebral cortex, functional
botanical collections, food plants, herbarium re	sources, pharmacology	organization of the brain 1970 Mar. p. 66-78 (526)
hotani taranani tat thuan assessing i	977 May p 96-104 [1359]	anemia, environmental toxins, blood disorders, kidney disorder, lead
botany, taxonomy, set theory, computer applies	ilions, zoology, numerical	poisoning nerve disorders 1971 Feb p 15–23 [1211]
taxonomy, computer classification of living		apliasia, Broca's area, language, speech disorders
botulism, bacterial toxin, tetanus, paralysis, ner	66 Dec p 106-116 [1059]	1972 Apr p 76-83 [1246]
impulse, synapse, motor neuron, Clostridu	im tetani. Clostridium	brain death, irreversible coma as definition of death 1968 Sept p 85 Kunsas Jaw 1971 Dec. p. 40
botulinum	1968 Apr p 69-77	Krinyas law 1971 Dec p 40 brain development, environmental stimuli, learning, memory, rats,
boundary layer, nirfoil, laminar flow, turbulence		sensory deprivation 1972 Feb p 22–29 [541]
	1954 Aug p 72-77	brain disease, serapie, kuru, Chidiak-Higashi syndrome, virus disease,
ailerons, aircraft design, acrodynamics, sinok	e tunnel, airfoil, low-	animal vectors, multiple sclerosis 1967 Jan p 110-116
speed flight	1956 Apr p 46-51	'brain drain', science manpower, UK to US 1955 Nov p 56
boundary-phase hypothesis, superdense water, w		science manpower, to US 1963 Apr p 81
polywater, thermal conductivity, surface to		immigration of scientists and engineers 1966 July p 49
II argued	1970 Nov p 52-71	supplies 45 percent of postdoctorals in U S 1970 Jan p 52
Bounty, Bligh, breadfruit, mutiny on a scientific		brain endocrinology, brain function, drug action, drug addiction,
Bourbaki, mathematics, philosophy of science,	1953 Mar p 88–94	endodorphins, enkephalins, internal opiates, opiate receptors 1977 Mar p 44-56
history, labors of the mathematical collecti		brain evolution, African hominids, fossil hominid brains, hominid, human
matory, tabora of the mathematical concert	1957 May p 88-99	brain, pongid brains endocranial casts 1974 July p 106–115 [686]
bowerbirds, sexual behavior, courtship display,		brain size, cephalization index, endocranial casts, intelligence,
behavior, Australian bowerbird, natural his		paleoneurology 1976 Jan p 90-101 [568]
arena behavior, sexual behavior, animal behavior	•	brain function, holography, memory, learning, interference patterns,
releaser stimulus, ethology, natural history		monkey brain, holographic model, neurophysiology of remembering
	1963 Aug p 38-46 [1098]	1969 Jan p 73–86 [520]
boxing, the bottom rung	1952 May p 44	carbohydrate, neurotransmitters, serotonin, human nutrition,
bad for health	1952 Oct p 46	tryptophan, feedback 1974 Feb p 84-91 [1291] drug action, drug addiction, endodorphins, enkephalins, internal
Boyle's law, chemical experimentation, pneumat	1967 Aug p 96–102	opiates, opiate receptors, brain endocrinology 1977 Mar p 44–56
philosophy bradykinin, kinins, peptides, kallidin, venom, ini		cyclic AMP, dopamine, endocrine system, messenger molecules,
local hormones, production and distribution	n	nervous system, neurotransmitters, L-DOPA treatment, Parkinson's
19	62 Aug p 111-118 [132]	disease, 'second messengers', brain endocrinology
Bragg's law, X-ray crystallography, atomic struc		1977 Aug p 108–119 [1368]
ray diffraction, Fourier analysis	1968 July p 58-70 [325]	brain hemispheres, cerebral cortex, mammalian brain, corpus callosum,
brain, cerebral cortex, cerebrum, cerebellum, bra	un surgery,	split-brain experiments, monkey, cat, human post-operative subject 1964 Jan p 42-52 [174]
electroencephalography, 'the great raveled k	not', localization of	cerebral dominance, perception, split-brain experiments, corpus
brain function memory, learning, cerebral cortex, fundament:	1948 Oct p 26-39 [13]	callosum, intelligence, language, localization of brain function
	953 Sept p 118-126 [11]	1967 Aug p 24-29 [508]
memory? Itaning, neurophysiology, neuropsychology, p		brain damage, speech, writing, cerebral cortex, functional organization
hypothalamus, electrode stimulation of plea	sure centers in rat brain	of the brain 1970 Mar p 66–78 [526]
1	956 Oct p 105-116 [30]	cerebral dominance, left-hemisphere functions, music perception, right- hemisphere functions, auditory perception, visual perception
central nervous system, medulla, reticular form	nation, perception, motor	1973 Mar p 70–78 [554]
reflex, neurophysiology, attention and orien	1957 May p 54-60 [66]	auditory perception, cerebral dominance, musical illusions,
1 11 control or the control of the c	neuronhysiology	handedness, hearing, illusions, perception, two-tone illusion
cerebellum, central nervous system, cerebrum, cerebral-cerebellar coordination	1958 Aug p 84–90 [38]	1975 Oct p 92–104 [566]
aled cells learning theory memory, neurones.	RNA, molecular theory	brain metabolism, blood-brain barrier, epilepsy, neurology,
of memory	[96] Dec p 02-10 [155]	neurophysiology, physiology of the barrier and its reinforcement 1956 Feb p 101-106
the methods bearing neurology sound vibra	itions, auditory	memory, protein synthesis, goldfish, learning, conditioned behavior
	/3 UCL D 94-102 [1202]	1967 June p 115–122 [1077]
brain circuitry, cerebellar cortex, neuronal netv	975 Jan p 56–71 [1312]	brain organization, cerebellum, cerebral motor cortex, muscle control,
mossy meets	1971 Nov p 48	monkey experiments 1973 July p 96–103 [1277]
memory sites self-nourishment in homeostasis	1973 July p 51	memory, hippocampal system, rats, spatial memory 1977 June p 82–98
brain circuitry, automata theory, Turing machine,	von Neumann	brain size, brain evolution, cephalization index, endocranial casts,
		intelligence naleoneurology 1976 Jan n 90–101 [568]
microscopy, nerve signals, nerve structure, oliac	otory system, stanning 171 July p 48–60 [1227]	broin stimulation, animal behavior, neurotransmitters, hormone, drive
techniques, Golgi stain, Nissi stain	se sumulus localization.	activation by injection of chemicals into rat brain
techniques, Golgi stain, Nissi stain mammalian brain, nerve signals, sensory system visual perception, superior colliculus in integ	ration at brain function	1964 June p 60–68 [485] brain surgery, brain, cerebral cortex, cerebrum, cerebellum,
visual perception, superior comedius in the 1	972 Dec p 72-82 [553]	electroencephalography, 'the great raveled knot', localization of
embryonic development, nerve cells, neuronal s	pecificity, visual cortex,	heave function 1948 Oct p 26–39 [13]
Xenopus laevis	73 Feb p 26–35 [1265]	base electroencephalography, alpha rhythms medical diagnosis.
brain, cerebellar cortex, neuronal networks, Full	775 Jan p 56–71 [1312]	Fourier analysis, toposcope display, automata theory
Lormone	sensitive neurons, sex	1954 June p 54-63 electroencephalography, learning, sleep, conditioned behavior,
adrenal hormones, gonadal hormones, normones hormones, sexual behavior, sex differences, st	eroid hormones, action	lation of brain waves to behavior 1959 Aug p 89-96
of hormones on nerve tissue	76 July p 48–58 [1341]	electroencephalography, computenzed EEG observation of behavior in
eve movement, neurophysiology, pons, visual co	ortex, visual processing. 1976 Nov p 90–98	man localization of brain function 1962 June p 142–153
visual cells in pons	1210 1101 P 20 22	

dreams, sleep research, electroencephalograph	ny, reticular formation,	reactor safety	1967 Nov p 59
paradoxical sleep, REM sleep, cat brain, th	e states of sleep	uranium-thorium cycle	1968 June p 44
parameter property and the parameter property an	1967 Feb p 62-72 [504]	British and French success	1976 May p 50
kappa for thinking	1949 Dec p 29	program in U S	1977 Mar p 58
brain weight, effect of experience	1965 Jan p 52	nuclear energy and weapons proliferation	1978 May p 81
Brauron, Classical archeology, Greek civilization	n, 500 B C temple	breeding cycle, avian reproduction, ring dove,	sexual behavior, hormone,
	1963 June p 110-120	fertilization	1964 Nov p 48–54 [488]
Brazil, economic development, industrialization	, tropical rain forest,	brewing, beer, enzymes, yeast, fermentation, he	ops, chemistry and
subsistence economy, tropical rain forest, t	irbanization, resource	microbiology of brewing	1959 June p 90–100
management, uneven national developmen	t 1963 Sept p 208-220	baking, yeast, riboflavin synthesis, cryptoco	ccal meningitis,
bread, kneading and baking by continuous proc	ess 1966 Aug. p 44	fermentation, cell physiology, yeasts, usef	
smell of bread	1968 June p 46		1960 Feb p 136–144
breadfruit, Bounty, Bligh, mutiny on a scientific	expedition	bride price, commerce, money, cultural anthro	pology, red leather money,
	1953 Mar p 88–94	Southwest Pacifie-Solomon Islands cultur	
breakers, tsunamis, seiches, ocean waves, surf,	generation and	marriage contracts, anthropology, Sebei trib	
propagation of ocean waves	1959 Aug. p 74-84 [828]	bridges, suspension bridges, aerodynamics, ha	
breath-holding, record	1956 Oet p 74	A C V o 10 T o company and a c	1954 Nov p 60–71
carotid bodies	1974 June p 51	bright-light exposure, electroretinography, vita	min A denetercy, night
breathing, whale, diving physiology	1949 July p 52–55	blindness, opsin, rhodopsin, retinitis pign	
lung, human physiology, alveoli, mechanism	of breathing	rat, action of vit A on eye Brillouin scattering, coherent radiation, interfe	1966 Oct p 78-84 [1053]
	1960 Jan p 138–148		1968 Sept p 120–136
alveoli, lung collapse, premature infants, leci	thin, surface tension,	light brine, Red Sea hot brines, salimity, percolation	
surfactant, hyaline membrane disease, soa			1970 Apr p 32-42
surface tension in lungs	1962 Dec p 120–130	spreading Britain, Neolithic archeology, woodhenges, he	
lung, neonatal physiology, respiration, first h	oreath of newborn	Stonehenge	1970 Nov p 30-38
1 . 1 . 1 . 1	1963 Oct p 27–38	frontier life, Roman Britain, Hadrian's Wall	
asphyxia, diving bradycardia, respiratory ga- mammals, diving birds, hibernation, oxyg	en storage, selective	Homici inc, Roman Diffam, Hadrian 5 Was	1977 Feb p 39-46 [692]
ischemia, human physiology, redistribution	on of oxygenated blood and	Broca's area, aphasia, brain damage, language	
'master switch of life'	1963 Dec p 92–106	2.11.12 2.1.1, april. 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1972 Apr p 76-83 [1246]
exercise adaptation, heart, blood circulation		broken English, humor, language, physics, joci	
physiology	1965 May p 88-96 [1011]	Niels Bohr	1956 Mar p 93-102
gas exchange, thorax, lung pulmonary venti		bromide poisoning, patent medicine hazard	1950 Âug p 30
physiology, vital capacity, mechanics and	physiology of breathing,	bronchitis, air pollution, emphysema, public h	ealth, smog, environmental
anatomy of lung	1966 Feb p 56-68 [1034]	health, US cities, smog and public health	n 1961 Oct p 49-57 [612]
anxiety, polygraph, lying, psychosomatic illi	ness, guilt, pulse rate, skin	bronchospasm, aspirin, inflammation, analges	ics, fever, histamine
temperature, 'lie detector' mis-named	1967 Jan p 25-31 [503]	reaction, anaphylactic shock, mode of act	uon and hazards of most
Ama, diving, diving women, Korea, Japan,	human physiology, basal	widely used drug	1963 Nov p 96–108
metabolism, adaptation	1967 May p 34–43	bronze, Etruscans, metallurgy	1955 Nov p 90-98
lung, gill, oxygen transfer, carbon dioxide, g	gas exchange, water-	Bronze Age, Iron age culture, rock paintings,	
breathing by mammals, animal experime		My cenaean civilization, Italian rock carvi	
	1968 Aug. p 66–74 [1123]	burial site, Classical archeology, Greek colo	
Antarctica, seal, directional orientation, bre		Indian culture link	1960 Oct p 62–71
	1969 Aug. p 100–106 [1156]	Iron Age, ironworking history, metallurgy, o	
avian respiratory system, bird bones, lung s	1971 Dec p 72-79 [1238]	wine vessels	1977 Oct p 122–131 [699] 1959 Aug. p 70
comparative physiology, blood pressure, ex		arsenic bronze	1967 Apr p 52
respiration	1974 Nov p 96–105 [1307]	brown fat, adipose tissue, hibernation, thermo-	
breeder reactor, liquid-metal coolant	1952 Dec p 58-60	metabolism, cold adaptation, neonatal pl	
fission reactor, nuclear power, boiling-water		in newborn animals, including man	1965 Aug. p. 62–65 [1018]
reactor, sodium cooled reactor, fast neut	ron reactor	altitude adaptation, Quechua Indians, accli-	matization, deer mice.
	1954 Dec p 33-39	hemoglobin, metabolic rate, exercise, hur	nan physiology at high
'atoms for peace', fission reactor, nuclear p	ower, Geneva reactors	altıtude	1970 Feb p 52-62 [1168]
	1955 Oct p 56-68	brown rat, animal communication, rats	1977 May p 106-116 [577]
fission reactor, nuclear power, energy econ		Brownian motion, measurement, time, velocity	
6	1958 Mar p 29–35	Planck's constant, limits of measurement	
fission reactor, nuclear power, energy econ		mathematics, probability, combinatorial and	alysis, normal curve.
uranium cycle, breeder reactor developn fission reactor, energy demand uranium fi		Markov chain Pascal's triangle, statistics	
generation' breeder reactors	1967 May p 25–33	probabilistic notantial theory account of the	1964 Sept p 92-108
nuclear power, fast neutron reactor, uranu		probabilistic potential theory, potential the	
liquid metal reactor, fission reactor ene		brucellosis in animals, vaccine	1969 Mar p 66-74 1953 Sept p 84
	1970 Nov p 13-21 [339]	Bruegel the Elder, Renaissance technology, te	chnology olimpses of
fast neutron reactor nuclear power, fission	reactor, Superphenix in	practical knowledge at work 400 years ag	o
France	1977 Mar p 26-35	1	978 Mar p 134-140 130031
nuclear power, atomic weapon proliferation	on arms control plutonium	Bruno, science history, Copernican revolution	Galileo's heresy.
fuel cycle, US energy policy and prolif		marty rdom of Giordano Bruno re-examin	ned 1973 Apr n 86-04
A E.C approves design	1978 Apr p 45~57 [3004]	Bryan, Darwinism, evolution, creationism, Da	arrow, Scopes trial, Scopes
deferred by A E C	1950 Jan p 28	tnal, U.S.A	1950 Jan n 120 120
at Arco Idaho	1950 June p 27 1952 Feb p 34	bubble chamber, cloud chamber, liquid hydro	gen superheated fluid
Arco design discolsed	1952 Nov p 42	spark chamber partials ago-1	1955 Feb p 46-50 [216]
breaking even	1953 July p. 40	spark chamber, particle accelerator, eloud e	
nitrogen use of heavy nitrogen in reactor	1956 Feb p 52	alternating gradient synchrotron 'eightfold	1962 Aug. p 36-43
plutonium fueled	1959 July p 65	particle particle accelerator, high-energy	way . omega-minus
Atomic Francis Commission	1961 Mar p 82	National Laboratory experiment	1964 Oct = 26 45
Atomic Energy Commission program	1963 Jan p 58	new particle trap	1964 Oct p 36-45 1954 Jan p 39
		•	1224 Jan p 39

xenon hubble chamber tracks bulble clamber experiments, beta decay, high-energy physics, hadrons,	
neutrino beam, particle accelerator, positron 1973 Aug n. 30-3	Romanesque parrel vault, building construction, vaulting technics
bubbles, flotation, mineral separation, surfactant, collector ions, ore beneficiation 1956 Dec p 99-11	Myzantine shipping, shipbuilding, Rhodian sea law, underwater
bubonic plague, epidemiology, liuman behavior, public health, Black Death, population history, long-term effects of plague, Europe 1348-	371 Aug p 22–33
50 1964 Feb in 114-121 (619	
endemie in U.S. prairie rodents. 1950 Dec. p. 30 huffilo, animal husbandry, antelope, giraffe, elephant, rhinoceros,	
hippopotinnus, wildlife hiisbandry in Africa 1960 Nov p. 123-134	C-4 trait, desert plants, efficiency, plant breeding
Buffon needle problem, Monte Carlo method, random numbers, probability, mathematics 1955 May p. 90-96	1973 Oct p 80–93 [1281]
building codes, building construction, construction technology, housing	concept 1971 Oct p 22–29
1971 Mar p 16-25 [341 building construction, skyscrapers, curtain wall, load-bearing wall 1955 Mar p 44-48	physostigmine, confine, quinine, cocaine, ricinine, LSD, human
radar domes, pneumatic buildings, construction teclinology 1956 June p 131-138	Caliokia, Amerindian, burial mounds, Mississippian culture, New World
prestressed concrete, architectural engineering, materials technology 1958 July p 25-31	calcite, bonc, calcium metabolism eggshell, chicken, mobilization of
Mycenaean civilization, eastle, nuraglii, Classical archeology, 1000 BC	crystals, calcium carbonate crystals, crystal structure, embryonic
proto-castles in Sardinia 1959 Dec p 62-69 architecture, primitive architecture, climate, igloo, teepee, yurt, tent,	development, sea urchin embryo 1977 Apr p 82-92 calcitonin, thyroid, metabolism, calcium metabolism, bone, human
sod hut, adobe house, hogan, stilt house 1960 Dec p 134-144	physiology, hormone, recognition and characterization of calcitonin
architectural engineering roof, vault, Gothic arch, Romanesque barrel vault, Byzantine dome, vaulting technics 1961 Nov p 144-154	1970 Oct p 42-50 calcium, bone, muscle fiber, mitotic spindle, calcium and life
architecture, sunlight, lighting, solar radiation, glass 1968 Sept p 190-202	l 1951 June p 60-63 bone, cartilage, feedback, hydroxyapatite crystal, osteoclasts
building codes, construction technology, housing	1955 Feb p 84-91
elimate, Cape Cod cottages in California 1949 Nov p 29	ATP, muscle contraction, barnacle, bioluminescence, aequonn, calcium ions in muscle construction 1970 Apr p 84-93 [1175]
bulk effect, isomerism, isotopes, organic cliemistry, paths of atoms in chemical reactions 1957 Nov p 117-126 [85]	ATP, actin, myosin, actinomyosin, muscle contraction, tropomyosin, troponin, microstructure of muscle filament and biochemistry of
bullet clusters, snow crystals, hexagonal habit, cloud physics, isuzumi	contraction 1974 Feb p 58–71 [1290]
crystals, variations on a theme 1973 Jan p 100–107 bumblebee energetics, bee, flower, symbiosis 1973 Apr p 96–102 [1270]	calclum carbonate, carbon cycle, sedimentary rock, photosynthesis, fossil fuel combustion, biosphere, atmosphere, carbon dioxide
buoyaney, marine biology, swim bladder, chambered nautilus, cuttlebone 1960 July p 118-128	1970 Sept p 125-132 [1193] calcium carbonate crystals, crystals, calcite, crystal structure, embryonic
burial mounds, Amerindian, Hopewell cult, New World archeology	development, sea urchin embryo 1977 Apr p 82-92 calcium-ion activator, cell motility, cell shape, embryonic development,
1964 Dec p 90-102 Amerindian, Cahokia, Mississippian culture, New World archeology	microfilaments, microtubules 1971 Oct p 76-82 [1233]
1975 Aug p 92–101 [688] Amerindian, New World archeology, Labrador 1976 Nov p 122–129	calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, osteogenesis parathyroid function
burial site, archeology, Nemrud Dagh, funerary monument, Turkey, tomb	1961 Apr p 56-63 [86] bone, piezoelectricity, osteogenesis, collagen bone adaptation to
of Antiochus I 1956 July p 38-44 Nile valley, Egyptian civilization, Sakkara, pharaohs, tombs of the first	mechanical stress 1965 Oct p 18-25 [1021]
pharaohs 1957 July p 106-116 Bronze Age, Classical archeology, Greek colony, Bahrain, Sumerian	bone, eggshell, chicken, calcite, mobilization of calcium from bone 1970 Mar p 88–95 [1171]
Indian culture link 1900 Oct p 62-71	eggshell thinning pollution, chorinated hydrocarbons DDT, dieldnn, avian reproduction, insecticide, food chain, ecological effect of
Amerindian, Eskimo, New World archeology, 2000 B C, Port au Choix, Newfoundiand, skeletons 1970 June p 112-121 [657]	pesticides 1970 Apr p 72-78 [1174] calcitonin, thyroid, metabolism bone, human physiology, hormone,
burial treasure, Mycenaean civilization, Classical archeology,	recognition and characterization of calcitonin 1970 Oct p 42-50
burners, aerospace technology, Coanda effect, fluid dynamics,	air pollution, rickets, vitamin D, ultraviolet radiation, osteogenesis, epidemiology, sunlight 1970 Dec p 76–91 [1207]
aerodynamics, propulsion, nozzles, nature and applications of	calcium pump, bioluminescence, membrane potential, plant cell, ion potential, electricity in plants 1962 Oct p 107-117 [136]
Coanda effect 1966 Julie p 54-52 1966 Julie p 54-52	calculating machine, mathematics, philosophy, Leibnitz, calculus, symbolic logic, Leibnitz, biography 1968 May p 94-100
hypothesis hypothesis cell differentiation, hymoral immunity, B-cells, T-cells,	computer, pocket calculator, integrated circuits, memory
a created lymphocytes invinus 17/7 1707 P 20 7 1 1 2 2	1976 Mar p 88-98 abacus, Galileo's sexton, mechanical calculators, slide rule, sexton
burying beetles, insect behavior, beetle, beetle reproduction 1976 Aug p 84-89 [1344]	1976 Apr p 104-113 calculus, Newton, mechanics optics life and work of Isaac Newton
business computers, computer applications, computer goes to market 1954 Jan p 21-25	1955 Dec p 73-80 mathematics philosophy, Leibnitz, symbolic logic, calculating
business cycle, economic analysis, economic forecasting, economic 1975 Jan p 17-23	machine, Leibnitz, biography 1968 May p 94–100 Euclidean geometry, falling stone problem, infinitesimals,
butadiene, rubber synthesis, isoprene, vulcanization, latex, elastomers,	mathematical logic, method of exhaustion, nonstandard analysis
synthetic rubber, molecular structure	1972 June p 78-86 calculus of chances, chance, probability, odds, causation, philosophy of
adaptation, plant evolution, minutely, survey June p. 104–113 [1076]	science, logician's point of-view 1965 Oct p 44–54 Coloutte, chaptytowns, cities, urbanization, caste, housing, poverty.
buying habits, poverty, Mexico City, sociology, culture of poverty 1969 Oct p 114-124 [651]	traffic, Calcutta, a city of the poor 1965 Sept p 90-102

ralefaction, Connecticut River, fission reactor, thermal pollution, industrial cooling, nuclear power, fisheries, ecology, fish crisis 1970 May p 42-52 [1177]	SV40 virus, gene transformation, chromosome mapping, tissue culture, somatic cells, hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
	^ ·
calendar, solar system, planetary motion, time, heliocentric theory, year,	
astronomy, Copernicus, astronomy, Copernicus, length of calendar	as psychosomatic illness 1952 June p 34
	human cancer in rats, grafts secured by cortisone 1953 July p 46
year 1900 Oct p 88-98 californium, table of elements, einsteinium, fermium, 'synthetic' elements,	cancer-inducing DNA 1960 Mar. p 93
californium, table of elements, entstellnum, fermium, synthetic crements,	1000
transuranium elements, mendelevium, radioactive decay, periodic	1070 14
table at 101 1956 Dec. p. 66-80 [243]	fetal antigens 1972 Mar p 43
Callisto, Galileo, Jupiter, Jovian satellites, solar system, Europa,	Type C tumor virus 1973 Sept p 66
	cancer 'cure', herbal quackery 1950 Dec p 31
	cancer diagnosis, cancer, enzyme blood levels, myocardial infarction,
caloric heat theory, ballistics, science history, oven, Rumford, heat as	cancel magnosis, cancel, enzyme blood levels, my ocardiar manetalin,
motion, Benjamin Thomson, biography 1960 Oct p 158-168	hepatitis, leukemia, medical diagnosis, diagnosis by presence of
calorie: down, joule up 1951 Feb p 34	abnormal enzymes 1961 Aug p 99-107
Calvin cycle, algae, photosynthesis, chloroplast, oxidative	cancer epidemiology, cancer, carcinogenesis, occupational cancer, cancer
phosphorylation, path of carbon in photosynthesis	prevention, increased incidence of cancer sought in environmental
1962 June p 88–100 [122]	and behavioral factors 1949 Jan p 11–15
camera, eye, rod cells, cone cells, retina, ins, optogram, rhodopsin,	carcinogenesis, environmental carcinogens, immune response, gene
anatomy and physiology of the eye, camera as metaphor	mutation, virus disease, cancer prevention
1950 Aug p 32-41 [46]	1975 Nov p 64-78 [1330]
lens design, telescope, interferometry, computer graphics, image	environmental and behavioral causes 1948 Dec p 27
	cancer immunology, antibodies, cancer, cell-surface antigens,
formation, light 1968 Sept p 96–108	tancer minimiology, antibodies, cancer, correctate antigens,
camouflage, birds, caterpillars, mimicry, behavioral adaptation, defense	immunopotentiators, immune response, tumor-specific antigens,
by color 1957 Oct p 48-54	leukemia, transplantation antigens 1977 May p 62-79 [1358]
evolution, melanism, moths, speciation, air pollution, population	cancer prevention, cancer, cancer epidemiology, carcinogenesis,
genetics, mutation, genetic variation, evolution observed	occupational cancer, increased incidence of cancer sought in
genetics, filutation, genetic variation, evolution observed	environmental and behavioral factors 1949 Jan p 11–15
1959 Mar p 48-53 [842]	environmental and benavioral factors 1949 Jan p 11-13
bioluminescence, fish, fish-scale crystals, tapetum lucidum, optics	cancer surgery, perfusing malignant tumors 1959 June p 85
under water 1971 Jan p 64-72 [1209]	cancer therapy, isotopes, X-ray, radiotherapy, ionizing radiation,
Camunian culture, Bronze Age, Iron age culture, rock paintings.	dosimetry, roentgenology, nuclear medicine, radiation use in
Mycenaean civilization, Italian rock carvings 1960 Jan p 52-59	medicine 1959 Sept p 164-176
Constant destains a 11 martin are CANINI moster	radiation damage, nitrogen mustard, carcinogenesis, mutation, nuclear
Canadian deuterium oxide reactor, see CANDU reactor	
'canals', Mars, polar cap, desert, atmosphere, climate, picture from Earth-	medicine, chemical imitation of radiation injury
bound study 1953 May p 65-73	1960 Jan p 99–108
canals, chinampa, drainage, Mexican agriculture, agricultural system,	chelation, hemochromatosis, lead poisoning, pharmacology, drug
Aztec civilization, highly productive farm plots, Aztec empire	action, Wilson's disease, metal poisoning, heavy metal poisoning,
1964 July p 90–98 [648]	bone cancer, salicylates, aspirin, chemotherapy, medical exploitation
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley	of chelates 1966 May p 40-50
Plan, water supply, Israel, Jordan 1965 Mar p 23-31	asparaginase, leukemia 1968 Aug p 34-40
	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50
Plan, water supply, Israel, Jordan 1965 Mar p 23-31	asparaginase, leukemia 1968 Aug p 34-40
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia,
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling,	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185]
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous-
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185]
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185]
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer
Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41
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Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11-15 embry onic development, dedifferentiation of tissue cells, regeneration	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239]
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Plan, water supply, Israel, Jordan barge transport, technology history, transportation, in US 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia leukocyte, stratomic gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin D 1968 July p 38–46 angiogenesis, avascular tumors, tumor inhibition, tumor vascularization tumor angiogenesis factor (TAF) 1976 May p 58–73 [1339] antibodies, cell-surface antigens, cancer immunology, 1977 May p 62 70 13 250	asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in mice 1949 May p 28 CANDU reactor; Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction, curtain wall 1974 Feb p 92-105 Cantor, infinity, set theory, equivalent sets, cardinal number 1952 Nov p 76-84 mathematics set theory, non-Cantorian sets, Russell's paradox, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116 Canyon Diablo meteorite, diamond, meteorites, iron-nickel phases, shock hypothesis, asteroids, origin of meteorites 1965 Oct p 26-36 capillary action, heat pipes, latent heat, vaporization, heat transfer, heat 1968 Nat p 38-46 capillary bed, frostbite, rapid thawing preserted
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blood circulation, mesentery, arteriole, venule, eardiovascular system	chondrites, meteorites, solar system, primordial dust cloud
1959 Inn. p. 54-60	1975 Fcb p 30-38
capital cost, nuclear power, cost assessment, energy economics, competitive with fossil fuels 1951 Jan p. 37–38	Organia lioax 1965 Jan n. 53
productivity, mechanization, labor cost 1951 Jan p 32–38	
capital-output ratio, productivity, labor force, automatic control.	y with the sea is sail
economic and social impact of automatic control	carbonated water, soft-drink evolution 1970 Nov p 104-115 [839]
1952 Sept p 150-160	Carboniferous period, coal, fossil, flora, Mississippian period.
capital punishment, U.N. death-penalty report 1973 July p 48 captivity, animal behavior, 2008 1954 May p 76-80	Pennsylvanian period, tropical flora, deposition of coal
captivity, animal behavior, zoos 1954 May p 76-80 capybara, malnutrition, food supply, human population, hunger, human	1948 July p 46-51
nutrition, Incaparina, cland, manatee, mussels, developing countries,	carbox lation eyele, ATP, mineral cycles, biosphere, phosphorus cycle, sulfur cycle, sulfur bacteria, cutrophication, mineral cycles in the
unorthodox food sources 1967 Feb p 27-35 [1068]	biosphere 1970 Sept p 148–158 [1195]
carbenes, carbon chemistry, chemical reaction, molecular orbitals,	carcinogenesis, cancer, cancer epidemiology, occupational cancer, cancer
reactive interinediates 1976 Feb p 101–113	prevention, increased incidence of cancer sought in environmental
carbohydrate, glycoprotein synthesis, Golgi apparatus, gohlet cells, mucus, saecules 1969 Feb p 100-107 [1134]	and behavioral factors 1949 Jan p 11-15
brain function, neurotransmitters, scrotonin, liuman nutrition,	cancer therapy, radiation damage, nitrogen mustard, mutation, nuclear medicine, chemical imitation of radiation injury
tryptophan, feedback 1974 Feb p 84-91 [1291]	1960 Jan p 99-108
earbon, silicon, polymers, silicon, plastics, silicon in place of carbon	polyoma virus, recombinant DNA, virus disease, 'temperate' infection,
1948 Oct p 50-53	genetic transduction, viral induced malignancy
polyethylene, spherulites, plastics, solid state playsies, crystallography	1960 Not p 63-71 [77]
1964 Nov. p. 80-94 in vitreous state 1968 Feb. p. 54	cigarcite smoking, tobacco, human physiology, lung cancer, coronary disease, effects of smoking 1962 July p 39-51
earbon 14, radiocarbon dating, paleobotany, archeological dating, pollen	cancer epidemiology, environmental careinogens, immune response,
analysis 1952 Feb p 24-28	gene mutation, virus disease, cancer prevention
atomie bomb test, fallout, C14 fallout 1959 Jan p 62	1975 Nov p 64-78 [1330]
carbon 14 abundance, climate, tee ages, Maunder minimum, solar pliysies, sunspots, dendrochronology 1977 May p 80-92 [925]	aflatoxin, Aspergilles flavus 1964 Nov p 60 Virus disease, integrated DNA 1968 Nov p 56
sunspots, dendrochronology 1977 May p 80-92 [925] carbon 14 dating, archeological dating. European prehistory,	virus disease, integrated DNA 1968 Nov p 50 cardiac arrhythmia, heart, muscle contraction, coronary occlusion, cardiac
dendrochronology 1971 Oct p 63-72 [672]	pacemaker, operation of cardiac pump 1957 May p 74-87 [62]
bristlecone pine, dating technique 1970 July p 52	intensive care, coronary care unit, fibrillation, coronary occlusion,
carbon chemistry, Apollo samples, moon, cosmology, solar wind	electrocardiography, nerve conduction, heart infarct 1968 July p 19-27
benzene, chemical accelerators, origins of life, high-energy carbon	cardiac 'conduction bundle', cardiology, electrocardiography, electrical
reactions 1975 Jan p 72–79	events in the heart 1961 Nov p 132-141
carbenes, chemical reaction, molecular orbitals reactive intermediates	cardiac disease, see coronary disease, cardiovascular disease and the like
1976 Feb p 101-113	cardiac function, hagfish, comparative psychology, cyclosomes, knot-tying fish, hermaphrodite 1966 Feb p 82-90 [1035]
carbon cycle, Sun, thermonuclear reaction, sunspots, solar spectrum,	cardiac hormone, cats 1968 Mar p 54
thermonuclear reaction, proton-proton interaction, stellar energy	cardiac insufficiency, digitalis, forglove, heart physiology, dropsy.
1950 Jan p 42–45	digitoxin, history of digitalis 1965 June p 110-119
calcium carbonate, sedimentary rock, photosynthesis, fossil fuel	cardiac pacchiaker, cardiac arrhythmia, heart, muscle contraction, coronary occlusion, operation of cardiac pump
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125-132 [1193]	1957 May p 74-87 [62]
carbon dioxide, photosynthesis, chlorophyll, water, tracer experiments	atrioventricular node, heart contraction, heart rate, sinus node
1948 Aug p 24-33	1967 Mar p 32-37 [1067] interference from electromagnetic radiation 1971 June p 59
laser, infrared radiation, nitrogen, gas laser, physics of carbon dioxide laser 1968 Aug p 22-33	cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy
laser lung, gill, oxygen transfer, gas exchange, water-breathing by mammals,	patent ductus arteriosus, technology and technique of open-heart
breathing animal experiments in Waltr-Drealiung	surgery 1960 Feb p 76-90
1968 Aug p 00-14 [1123]	cardiac surgery, cardiac prostheses, heart-lung machine, Fallot tetralogy patent ductus arteriosus, technology and technique of open-heart
calcium carbonate, carbon cycle, sedimentary rock, photosynthesis,	surgery 1960 Feb p 76-90
fossil fuel combustion, biosphere, atmosphere 1970 Sept p 125-132 [1193]	artificial portic valve 1962 Jan p 68
anaray demand, thermal pollution, Industrial Revolution, biosphere,	see also cardiovascular surgery, heart surgery cardinal number, infinity, set theory, equivalent sets, Cantor
	1952 Nov p 76-84
modification of natural cycles by man 1970 Sept p 174-190 [1197] neuston, manne life, microlayer oceanography, ocean surface,	cardinal numbers, child development, mathematics education,
1974 Will D UZ- 1 1974	mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109
carbon dioxide 'window', climate, meteorology, air polition, tossis ta tage	cardingram, whale 1952 Oct p 68-70
	cardiology, Fallot ietralogy ductus arteriosus, cardiovascular surgery
wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, ocean circulation, terrestrial radiation, Earth	1950 Jan p 14-17 Starling, 'Law of the Heart', biography of Ernest Starling
	1951 Oct p 56-61
a the transfer of the control of the	sound spectrography, heart, heart sounds electronic analysis of heart
temperature of Earth, human activity and 1971 Jan p 32-42 [894]	sounds 1956 May p 120-130 heart metabolism, Starling, 'Law of the Heart', venous catheter study
atmosphere chmate biomass, ocean sediments, humus, 'greenhouse	1957 Feb n 50-54
effect', threat of 'greenhouse effect'	medical diagnosis, Newton's third law, ballistocardiography
Earth heating up?	1958 Feb p 89-95 electrocardiography, cardiac 'conduction bundle', electrical events in
carbon phases, synthetic diamonds, night pressure, all 1955 Nov p 42-46	the heart 1961 Nov p 132-141
	stethoscopic catheter 1956 July p 57
carbonaceous chondries, themetical visiting by the characters	reserpine 1958 Oct p 56 heart disease hereditary not dietary 1958 Nov p 56
meteoritic hydrocarbons, Oparin-Haldane hypothesis 1972 June p 38-46 [902]	neart disease hereofter, not be the

cardiovascular disease, stress, psychosomatic illness, alarm reaction,	cassava, manioc, yield tripled by first systematic study 1976 Sept p 68 Cassiopeia, radio star, Crab Nebula, supernovae, galactic collision, with
kidney disorder, adrenal gland 1949 Mar p 20-23 [4] artery prostheses, vascular surgery, atherosclerosis, repair of vascular	200 radio stars counted, some speculation on their nature
disease damage 1961 Apr p 88–104	1953 Jan p 17–21
atherosclerosis, human nutrition, arteries, epidemiology, cholesterol,	universe, radio galaxies, Cygnus A, red shift, Crab Nebula, colliding
coronary occlusion, diet, lipids, plaque, artery wall	galaxies 1956 Sept p 204-220 caste, shantytowns, Calcutta, cities, urbanization, housing, poverty,
1966 Aug p 48-56 cardiovascular surgery, cardiology, Fallot tetralogy, ductus artenosus	traffic, Calcutta, a city of the poor 1965 Sept p 90–102
cardiovascular surgery, cardiology, ranot terratogy, ductos arteriosas	class discrimination, Harijans, untouchables, Hinduism, India, civil
vascular surgery, surgical stapler, stapling technic for joining vessels	nghts 1965 Dec p 13-17
1962 Oct p 48–56	castle, architectural engineering, war, Norman invasion, English castles,
cardiovascular system, shock, traumatic shock, capillary bed, electrolyte	A D 1066 1958 Mar p 42-48 Mycenaean civilization, nuraghi, Classical archeology, building
balance, blood transfusion 1952 Dec p 62-68 capillary bed, blood circulation, mesentery, arteriole, venule	construction, 1000 BC proto-castles in Sardinia 1959 Dec p 62-69
1959 Jan p 54–60	cat brain, dreams, sleep research, electroencephalography, reticular
cargo cult, Christianity, religion, cultural anthropology, Melanesian cargo	formation, brain waves, paradoxical sleep, REM sleep, the states of
cult 1959 May p 117–125	sleep 1967 Feb p 62-72 [504] cat color, genetic variation, human migration, gene mutation, population
cargo handling, shipping, containerization, automatic control, loading, air transport 1968 Oct p 80-88	genetics, cline maps, Hardy-Weinberg equilibrium
transport 1968 Oct p 80-88 caribou, cold adaptation, rodent, moose, polar ecology, animal	1977 Nov p 100–107 [1370]
adaptation to Arctic 1960 Jan p 60-68	CAT scan: computer assisted tomography
caries, dentistry, bacteriology, fluoridation, new theory of tooth decay	CAT scan, computer algorithms, computer-assisted imaging, image
1948 Oct p 20-23	reconstruction, computer graphics, medical care, tomography 1975 Oct p 56-68
dentistry, tooth enamel, bacteriology, causes of tooth decay 1957 Dec p 109-116	catalysis, enzymes, digestion, respiration, fermentation, lock-and-key
carnivorous chimpanzees, chimpanzee, food sharing, hunting, omnivorous	theory, science history 1948 Dec p 28–39
chimpanzees, feeding behavior, Gombe National Park, Tanzania	air pollution, combustibility, fly ash, dust storms, metallurgy, fine
1973 Jan p 32-42 [382]	particles 1950 Dec p 50-53
carnivorous plants, fungi, soil molds, nematodes, carnivorous fungi 1958 July p 67-72 [1094]	polymers, materials technology, industrial chemistry, stereoisomers, synthesizing giant molecules 1957 Sept. p. 98–104
voodoo lily, insect attractant, Arum family, respiration	polymers, materials technology, industrial chemistry, stereoisomers,
1966 July p 80-88	synthesizing giant molecules 1957 Nov p 98-104
active trapper, passive trapper, digestive enzymes, natural history	enzyme-substrate complex, enzymes, dialysis 1959 Aug p 119-125
1978 Feb p 104-155 [1382] Carnot, Rumford, Joule, science fustory, heat, pioneers in the theory of	lithium, polymerization, stereoisomers, promotion of polymerization by lithium 1963 Jan p 88–102
heat 1954 Sept p 60-61	corona discharge, free radicals, ozone, polymerization, corona
Carnot cycle, heat pump, thermodynamics, principles and applications of	chemistry, water purification, hydrocarbon cracking
heat pump 1951 May p 54-59	1965 June p 90–98
Diesel engine, isothermal combustion, automobile engines, Diesel's 'rational' engine 1969 Aug p 108-117	chemical reaction, chemical kinetics, allosteric enzymes, proton transfer, enzymes, chemical equilibrium, relaxation methods in
carotene, leaf color, anthocyanins, chlorophyll, primary synthesis of	chemistry 1969 May p 30-41
aromatic compounds 1950 Oct p 40–43	chemical reaction, industrial processes, petroleum cracking
photosynthesis, chlorophyli, retinene, vision, photobiology,	1971 Dec p 46–58
phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92-108	catalytic polymerization, polyethylene, polymers, thermoplastic polymers, properties, production, economics of first 1,000 million-pound
carotenoids, chloroplast, photosynthesis, chlorophyll, biology of pigments	plastic 1957 Sept p 139–152
1956 Jan p 80-86	polymers, 'stereoregular' polymers, isotaetic polymers, polyethylene,
flower pigments, pigment synthesis, flavonoids, anthocyanins,	polypropylene, precisely constructed polymers
biochemistry and genetics of flower pigments 1964 June p 84–92 [186]	1961 Aug p 33-41 [315] cataly tic proteins, enzyme action, protein-cutting enzymes, proteolytic
carrier-wave generator, communication technology, crystal structure,	enzymes, serum proteins, chymotrypsin, elastase, trypsin
diode laser, laser, heterostructure lasers, light-emitting	1974 July p 74–88 [130]]
semiconductor, solid-state electronics 1971 July p 32-40 carrier-wave modulation, coaxial cable, communication technology.	cataract, eye lens, retina, etiology, course and treatment of cataract
electromagnetic spectrum, fiber optics, radiowave, communication	aging, eye lens, human eye, vision 1962 Mar p 106–114 1975 Dec p 70–81
channels, bandwidth, noise 1972 Sept p 98–113	catastrophe theory, discontinuous phenomena, mathematical model,
Carroll, mathematics, logic, Dodgson, 'Alice in Wonderland', Lewis Carroll (Charles Lutwidge Dodgson), biography	topology 1976 Apr p 65–83
1956 Apr p 116–128	to describe discontinuous processes 1976 Mar p 60D 'catastrophism', fossil record, species extinction, natural selection,
Cartesian diver, embryonic development, cell differentiation,	glaciation, crises in the history of life 1963 Feb p. 76–92 (867)
embry ological 'organizer', fundamental research, How do cells	catecholamines, acetylcholine, adrenalin, dopamine, drug effects, nerve
differentiate? 1953 Sept p 108-116 Cartesian geometry, mathematics, analytic geometry, philosophy,	physiology, neurotransmitters, noradrenaline
Descartes, Rone Descartes, biography 1959 Oct p 160-173	1974 June p 58–71 [1297] catenane, chemical topology, topological isomer, cyclic molecules,
Carthage, Classical archeology, Roman colony, archeological 'rescue'	molecular structure, ring molecules, linking and knotting of ring
Carthaginian fortress, military history, Sardinia 1975 Feb p 80–87	molecules 1962 Nov p 94–102 [286]
cartilage, bone, calcium, feedback, hydroxyapatite crystal, osteoclasts	formation of hydrocarton rings 1960 Nov p 92 caterpillars, birds, camouflage, mimicry, behavioral adaptation, defense
1955 Feb p 84-91	b) color 1957 Oct = 40 54
cartography, Mount McKinley, photogrammetry 1949 Jan p 46-51 carts, transportation, wheeled vehicles, oxen, wagons, Transcaucagus,	cation, hyla, chameleon, skin color, chromatophores, how animals
Mesopotamia origin ol wheeled transport 5,000 years ago	change color 1952 Mar p 64-67
1968 July n 87-90	catharsis, aggression, violence, delinquency, motion picture film
casein, lictogenesis milk, mammary gland, hormonal action, cell secretion composition and synthesis of cow's milk	television, effects of observing filmed violence
1969 July n Se 68	1964 Feb - 26 41 (481)
Caspian sea, sali falling level of Caspian 1963 Aug p 94-100	cathode-ray tube, electronics, electron tubes, amplifiers, communication technology, rectifiers electron optics, communication, power,
	or option, communication, power,

thermionic emission, state of the technology 1950 Oct p 30-39 computer technology, computer displays, information theory, light pencomputer graphies, rand tablet, computer graphics and man-	reflexes, neuroreceptors, retina, nerve impulse, neurotransmitters
machine interface 1966 Sept. p. 86-96	neural synapse, eytology, neuromuscular synapse, how eells
computer, mechanical composition, computer applications	adrenal gland, ACTH, pituitary gland, molecular structure of ACTH relation to function 1963 July p. 46–53 [160]
Crookes tube, oscilloscope, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101	genetic code, communication, nerve impulse, hormonal action, metabolic information 1972 Sept. p. 42–51 [1257]
cntionle detergent, synthetic detergents, nnionic detergent, surfactant, nature and action of synthetic detergents 1951 Oct p 26-30	human cells 1957 Aug p 91–100 [33]
catnip, insect repellant 1965 Feb n 54	muscle tissue, embryonic cells, cell differentiation, clone, origin of muscle in embryonic development 1964 Aug p 61-66
cattle, animal husbandry, dairying, Zehu cattle, European eattle, selective	aging, fibroblasts, mitosis, somatic cells, cell, DNA replication
stock breeding 1958 Jime p 51-59 biological pest control, serew worm fly, X-ray, sterilization, pest	experiments in aging 1968 Mar p 32–37 [1103] cell differentiation, larvae, fruit fly, transdetermination
eontrol, eradication of the serew worm fly 1960 Oct p 54-61	1968 Nov p 110–120 [1127]
animal husbandry, Karimojong, subsistence herding, Uganda 1969 Feb p 76-89	cell liybridization, cell differentiation, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory
beetle, coprid beetles, dung beetles 1974 Apr p 100–109 a disease called 'X' 1948 Dec p 27	
synthetic diet 1966 Aug p 42	cell differentiation, cell-surface antigens, immune response, immunoglobin, lymphocytes 1973 June p 82-91 [1275]
causation, chance, probability, odds, calculus of chances, philosophy of	cell differentiation, protozoon, regeneration, embryonic development,
seience, logician's point-of-view 1965 Oct p 44-54 eavalry, Mongol conquests, war, Chingis Klian, frontier listory, nomatic	protozoon as model for embryological study 1953 Mar p 76–82
civilization, Chingis Khan, biography 1963 Aug. p 54–68	cmbry onic development, embry ological 'organizer', Cartesian diver, fundamental research, How do cells differentiate?
cave art, cave paintings, Paleolithic archeology, sculpture, Lascaux,	1953 Sept p 108-116
Altamira 1968 Feb p 58-72 cave bear, bears, Ice Age, extinction mechanism 1972 Mar p 60-72	embry onie development, blastula, gastrula, fertilization ectoderm
cave dwellers, Peru, stone tools, human evolution, Ayacucho site	mesoderm, endoderm, embryological 'organizer', science history, review of classical embryology 1957 Nov p 79–88 [103]
1971 Apr p 36-46	embryonic development, feedback, tissue specialization
cave paintings, Palcolithic Europe, Cro Magno art, Magdalenian, Aurignacian-Perigordian 1953 Aug p 30-33	1958 Dee p 36-41 Hydra, sexual reproduction, asexual reproduction, growth regulation
cave art, Paleolithic archeology, seulpture, Laseaux, Altamira	carbon dioxide as 'sex gas' 1959 Apr p 145–156
caves, ecology, degenerative evolution 1968 Feb p 58–72 1955 May p 98–106	amoebae, social amoebae, slime mold, Dietyostelium cell aggregation, acrasin 1959 Dee p 152-162
caves, ecology, degenerative evolution 1955 May p 98-106 cavitation, droplet-levitation technique, liquids, negative-pressure	tissue specialization, 'lampbrush' chromosome, embryonic
concept, tensile strength, surface tension 1972 Dec p 58-71	development, zygote, fertilization, ovum, elone, cytology, how cells specialize 1961 Sept p 124-140
C.E.D.: Committee for Economic Development C.E.D. recommendations, Congressional role in arms policy	specialize 1961 Sept p 124-140 cell aggregation, heart cells, heart contraction, myogenic rhythm, rat
1974 Oct p 55	cardiac cells in vitro 1962 May p 141-152
Ccdros Trough, Pacific Ocean, earth crust, Acapulco trench, Tonga Trench, ocean floor 1955 Nov p 36-41 [814]	muscle tissue, embryonic cells, cell culture, clone, origin of muscle in embryonic development 1964 Aug p 61-66
celestial energy, cosmological 'hangups', energy cycle, power, radiation	cell culture, larvae, fruit fly, transdetermination
energy, entropy per unit energy, gravitational energy, stellar	1968 Nov p 110-120 [1127] nucleus transplantation, clone, genetic engineering, somatic cell
evolution, thermonuclear energy 1971 Sept p 50-59 [662] celestial maser, radio astronomy 1966 Jan p 48	nucleus, gene complement, frog embryo, gene regulation
elestial navigation, bird migration, bird navigation, blackpoll warbler,	1968 Dec p 24–35 [1128]
indigo bunting, planetarium experiments 1975 Aug p 102-111 [1327]	embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136]
by radio sextant 1959 Apr p 70	cell culture, cell hybridization, hybrid cells, Sendai virus, gene
polibory, burth control, disease, foundling institutions, infanticide,	mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137]
Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674]	cell culture, cell-surface antigens, immune response, immunoglobin
cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38-41	lymphocytes 1973 June p 82-91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system,
llagen electin Legatin myosin fibrin polymers, polymers in living	lymphocytes, thymus 1974 Nov p 58–72 [1306]
1937 Sept p 204-210 [33]	regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens
amoebae, cytology, sol-gel reaction, high pressure, effect of high	1974 Dec p 44-54 [1309]
pressure on cellular activity	regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66-81 [1363]
	cell division, see mitosis, meiosis
experiments in aging microsurgery, laser, physiology, laser lesions, cell organelle microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170]	cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic
cell aggregation, Volvox, metazoa, between single-celled and multi celled 1950 May p 52-55	activity in cell 1970 Nov p 22–29 [1203]
organisms cytology, embryonic	cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella
development, how cells associate 1961 Sept p 142–165	plastids 1971 Aug p 48–57 [1230]
cell differentiation, heart cells, heart contraction, moss May p. 141–152	cell-free system, DNA synthesis virus π X 174, DNA polymerase, activated nucleotides first test-tube synthesis of biologically active
cardiac cells in vitro 1962 May p 147 152 marine organisms, Mesozoa, multicellular organisms 1972 Dec p 94-101 [1262]	DNA 1968 Oct p 64-78 [1124]
to behavioral adaptation, insect behavior	cell fusion, mouse and human cells fused 1965 Apr p 62 cell hybridization, cell culture, cell differentiation, hybrid cells, Sendai
cell analogy, termite, social insect, behavioral adaptation 1953 May p 74-78	wrus gene mapping mouse-rat, mouse-human hybrid cells in
rell anatomy, spermatozoon, ovum, virus, science history, cytology, muscle cell plant cell, connective tissue cell, introduction to single topic issue on the living cell 1961 Sept p 50-61 [90]	laboratory 1969 Apr p 26-35 [1137] laboratory gene mapping, hybrid cells mouse-human hybrid cells, somatic cells 1974 July p 36-44 [1300]

cell junctions, cell membrane, the three kinds of cell junction	calcium-ion activator, cell shape, embryonic development,
1978 May p 140–152 [1388]	microfilaments, microtubules 1971 Oct p 76–82 [1233] ATP, axoneme, cilia, flagella, microtubules, how cilia move,
cell life cycle, ascites tumor, isotopes, radioautography, cellular autobiography 1963 Aug p 103-110 [165]	paramecium, sperm 1974 Oct p 44–52 [1304]
cell membrane, 100 potential, nerve impulse, biological role of potassium	bacterial motility, chemotaxis, flagellar action, E coli
1949 Aug. p 16–21	1976 Apr p 40–47 [1337]
cell organelle, mitochondna, metabolism, enzymes, cell metabolism,	wound healing, cell tracks, embryonic development, tubulin, mitotic apparatus, cell motion made visible to naked eye
'powerhouse of the cell' 1957 July p 131–140 [36] insulin, amino-acid sequence, sugar metabolism, human physiology,	1978 Apr p 68–76 [1386]
action of insulin 1958 May p 99–106	cell nucleus, cytosurgery, micromanipulator, on transplanting nuclei
pores, erythrocyte 1960 Dec p 146–156	1952 Apr p 58-64
pinocytosis cytology, cell metabolism, ingestion by outer membrane	cytoplasm, cell organelle, chromosome, cell physiology, RNA, DNA,
1961 Apr p 120–130	endoplasmic reticulum, cytology, nuclear control of cell 1960 Jan p 126-136
active transport, passive transport, pinocytosis, phagocytosis, cytology, osmosis, fertilization, functions of cell membranes	Acetabularia, giant cells, mermaid's wineglass, cytoplasm, algae, giant
1961 Sept p 167–180 [96]	cells in study of nucleus-cytoplasm interaction
electron microscopy, endoplasmic reticulum, myelin sheath,	1966 Nov p 118–124 [1057]
mitochondria, nuclear membrane, electron microscope study of	chromatin, chromosomal proteins, DNA, gene regulation, histories, nucleoproteins, oxidative phosphorylation
membranes in cell 1962 Apr p 64-72 [151] kidney tubule, sodium pump, membrane potential, active transport,	1975 Feb p 46–57 [1315]
biological pumps 1962 Aug p 100–108	see also spermatozoon nucleus
phospholipids, phosphatidic acid cycle, nerve cells, cell secretion,	cell organelle, mutochondna, metabolism, enzymes, cell metabolism, cell
membrane transport potential 1965 Oct p 78–86 [1022]	membrane, 'powerhouse of the cell' 1957 July p 131–140 [36] cell nucleus, cytoplasm, chromosome, cell physiology, RNA, DNA,
ATP, mitochondrion, glycolysis, enzymes, oxidative phosphorylation,	endoplasmic reticulum, cytology, nuclear control of cell
cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101]	1960 Jan p 126–136
bacteriophage, receptor specificity, bacterial receptor sites, O antigen,	microsurgery, laser, cell, physiology, laser lesions
Salmonella 1969 Nov p 120-124 [1161]	1970 Feb p 98–110 [1170]
intercellular communication, salivary gland, epithelium, molecular	chloroplast, mitochondria, symbiosis, DNA, prokaryote origin, protein synthesis, plastids, cell evolution, extra nuclear genetic activity in
signals, membrane permeability, junctions in cell membrane 1970 May p 78–86 [1178]	cell 1970 Nov p 22–29 [1203]
enzymes, artificial membranes, enzyme action, enzymes as industrial	cell evolution chloroplast, endosymbiosis, eukaryotic cells,
catalysts 1971 Mar p 26–33 [1216]	mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella,
membrane lipids, membrane permeability, phospholipids, membrane	plastids 1971 Aug p 48–57 [1230] peroxisome 1969 July p 52
proteins, active transport 1972 Feb p 30-38 [1241] immune response, organ transplant, tissue grafts, tissue typing, self-	peroxisome 1969 July p 52 nbosome, RNA, protein synthesis, structure of the nbosome
marker hypothesis 1972 June p 28–37 [1251]	1969 Oct p 28 [1157]
mitosis, mitotic spindle, cell reproduction, chromosome replication, cell	cell perfusion, axon, neurology, nerve conduction Schwann cell,
life cycle 1974 Jan p 54-64 [1288]	axoplasm, membrane potential perfusion technique, structure of
lipid molecules, membrane proteins, membrane structure, active transport 1974 Mar p 26-33 [1292]	axonal tube, physiology of neural transmission, concentration gradients 1966 Mar p 74-82 [1038]
transport 1974 Mar p 26–33 [1292] cell secretion, endoplasmic reticulum, exocytosis, membrane fusion,	cell physiolog, cell nucleus, cytoplasm, cell organelle, chromosome,
fluid-mosaic model of membrane 1975 Oct p 28-37 [1328]	RNA, DNA, endoplasmic reticulum, cytology, nuclear control of cell
ATP, colicine, membrane energetics, active transport, E. coli	1960 Jan p 126–136 baking, yeast, brewing riboflavin synthesis, cryptococcal meningitis,
1975 Dec p 30–37 [1332] antibodies, histocomptability, antigens, immune response,	fermentation yeasts, useful and normous 1960 Feb p 136–144
immunoglobin, lymphocytes, B-cells T cells	aging, gerontology, life expectancy, manifestations of aging
1976 May p 30-39 [1338]	1962 Jan p 100-110
bacteria, halobacteria, photosynthesis, rhodopsin, salt-loving bacteria 1976 June p 38-46 [1340]	cell receptors, endocrine hormones, gene regulation, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32-43 [1334]
agglutination response, cancer, immunology, lectins, proteins	cell 'recognition', cell aggregation, tissue differentiation, cytology,
1977 June p 108-119 [1360]	embryonic development, how cells associate 1961 Sept p 142-165
ATP, oxidative phosphorylation, active transport, mitochondrion,	cell reproduction, mitosis, mitotic spindle, cell membrane, chromosome
chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104-123 [1383]	replication cell life cycle 1974 Jan p 54-64 [1288] see also chromosome replication, meiosis, mitosis
cell junctions, the three kinds of cell junction	cell secretion, cell membrane, phospholipids, phosphatidic acid cycle,
1978 May p 140-152 [1388]	nerve cells membrane transport potential 1965 Oct p 78-86 [1022]
membrane proteins 1975 June p 44 cell memory, mollusk nerve cell 1965 Oct p 41	lactogenesis milk, mammary gland, casein, hormonal action, composition and synthesis of cow's milk 1969 July p 58-68
cell metabolism, cell organelle, mutochondria metabolism, enzymes cell	composition and synthesis of cow's milk 1969 July p 58-68 cell membrane endoplasmic reticulum, exocytosis membrane fusion,
membrane, 'powerhouse of the cell' 1957 July p 131~140 [36]	fluid mosaic model of membrane 1975 Oct p 28_37 [1328]
ATP, extract acid cycle, mutochondrion, mutochondrion as site of biological oxidation 1958 July p 56-62	cell shape, calcium-ion activator, cell motility, embryonic development
biological oxidation 1958 July p 56–62 cell membrane, pinocytosis cytology, ingestion by outer membrane	microfilaments, microtubules 1971 Oct p 76-82 [1233] cell sorting, automatic cell sorting, fluorescence activated technique
1961 Apr p 120-130	1976 Mar p 108-117
ATP, chloroplast, mitochondrion photosynthesis, glucogenesis citric-	cell structure, wood cellulose lignin, grain structure 1953 Ian p. 64-67
acid cycle, glycolysis, oxidative phosphorylation cytology, cellular transformation of energy 1961 Sept. p. 62–73 [91]	neutron-beam scattering technique, protein synthesis, ribosome, structure of ribosome
ATP, mitochondrion glycolysis cell membrane, enzymes oxidative	cell-surface antigens, cell culture cell differentiation, immune response,
phosphorylation mitochondrial membrane	immunoglobin lymphocytes 1973 June p. 87 01 (1975)
ACTH ATP, glucogenesis glycolysis hormone, epinephrine, cyclic	blood plasma, collagen glycoproteins, interferon, protein molecule
AMP, activation of cyclic AMP by hormones	antibodies cancer, cancer immunology, immunopotentiators immune
1972 Aug p 97-105 [1256]	response tumor-specific antigens, leukemia, transplantation antigens
cell motility, amochae phagocytosis cytoplasmic streaming sol-gel reaction front contraction theory of amochoid motion	1977 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1962 Feb p 112–122 [182]	antigens graft rejection histocompatability, immune response, H-2
1702 1 CO p 112-122 [102]	antigens HLA antigens 1977 Oct p 96–107 [1369]

mitates and restrict call meaning cinbryonic development, tubuling	
mitotic apparatus, cell motion made visible to naked eye	michiculon molor neuron effects reflex Denshow est
in gold dust 1978 Apr p 68-76 [1386	1966 May n 102_110
	animal beliavior, mollusks, neurophysiology 1971 Feb n 62,75 (1717)
eell transformation, gene culture, polyoma virus, SV40 virus, viral DNA, viral carcinogenesis 1967 Apr. p. 28–37 11069	Oliateral Symmetry, left-right assummetry, mirror images
viral carcinogenesis 1967 Apr p 28-37 [1069] cell wall, gene transformation, pneumococcus, recombinant DNA,	1971 Mar n 96_104 15251
transformation induced by factor synthesized by cell	drug-induced imagery, hallucination, perceptual illusions, perceptual-
to an additional induced by factor synthesized by cell	release theory 1977 Oct n 132–140 (579)
bacterial cell in setemal metabolism managina nel accident del participation paragraphic nel accident del participation per seteman per se	
bacterial cell, bacterial metabolism, penicillin, polysacclurides, glycopeptides, membrane 1969 May p. 92-98	of Cluna, Guatemala, rural markets 1975 May n 66-79
glycopeptides, membrane 1969 May p 92-98 cellulose, monosaccharides, plant cell, polysaccharides	
	compressor, ducted fan, electric power generation
1975 Apr p 80-95 [1320] cello, bass, viola, violin, Chiladni patterns, music, musical instruments.	
	centrifuge, blood plasma, blood fractionation, crythrocyte, leukocyte,
physics of violins 1962 Nov p 78-93 cellular polarity, regeneration, biological form, cell differentiation,	1 100 p 5 1 0 p
embryonic development, Hydra, morphogenesis, morphogens	centrioles, muotic spindle, sea urching egg, chromosome, digitonin
1974 Dcc p 44-54 [1309]	1953 Aug p 53-63
cellulose, synthetic fiber, rayon, nylon, synthetic macromolecules, glass.	
man-made textile fibers 1951 July p 37-45	C.E.P., counterforce strategy, atomic weapons, cruise missiles, MIRV,
wood, lignin, cell structure, grain structure 1953 Jan p 64-67	
soil conditioners, humus, polyacrylates, polyvinylites, tilth	of force 1975 July p 14-23 cephalization index, brain evolution, brain size, endocranial casts
1953 Aug p 36-38	intelligence, paleoneurology 1976 Jan p 90-101 [568]
rayon, forest products, crystal structure, lignin, polymers, paper,	ccphalopods, squid, grant axon, nerve impulse 1951 Apr p 64-69
polysaccharides, overview of natural polymer 1957 Sept p 156-168	Ceplicid variable, universe expansion, Clouds of Magellan, Andromeda
algae, xylan, mannan, plant cell wall, xylan, mannan in place of	Galaxy, galactic yardstick, doubling of yardstick doubles size and
cellulose in marine plant tissue 1968 June p 102-108 [1110]	age of the universe 1953 June p 56-66
forest products, wood pulp, paper, lignin, rayon, waste recycling, kraft	galactic evolution, 'cosmic yardstick', universe evolution
process 1974 Apr p 52-62	1959 July p 48-55
cell wall, monosacchandes, plant cell, polysacchandes	invisible twin North Star of Polaris 1956 Feb p 56
1975 Apr p 80-95 [1320]	cosmology, intergalactic yardstick lengthens 1958 Sept p 86
molecule synthesized 1957 Aug p 60	ccramics, materials technology, glass fiber, optical glass, amorphous
cellulose digestion, ruminants, metabolism, symbiosis, anaerobic	solid, properties of glass as 'undercooled liquid' 1961 Jan p 92-104
metabolism, fermentation, how cows digest grass	glass, metals, materials technology, polymers, chemical band,
1958 Feb p 34-38	composite materials, atom, elements, introduction to single-topic
slupworm, Teredo, natural lustory 1961 Feb p 132-142	issue on materials 1967 Sept p 68–79
Celtic Britain, archeology, Celtic culture, Gussage site	aluminates, materials technology, crystal structure, silicates, heat resistance, ionic bonds, covalent bonds, nature of ceramics
1977 Dec p 156-159 [702]	1967 Sept p 112-124
Celtic culture, archeology, Celtic Britain, Gussage site [977 Dec p 156-159 [702]	ductility in single-crystal magnesium oxide 1958 Apr p 50
Celtic religion, Gauls in France, Seine River source, shrine of Sequana	cerebellar cortex, brain, brain circuitry, neuronal networks, Purkinje
1971 July p 65–73	cells, mossy fibers 1975 Jan p 56-71 [1312]
ement, concrete, Portland cement, hydration, X-ray diffraction,	cercbellum, brain, cerebral cortex, cerebrum, brain surgery,
chemistry of concrete 1964 Apr p 80-92	electroencephalography, 'the great raveled knot', localization of
charged reaction, high-aluming cement, Portland cement, cement	brain function 1948 Oct p 26-39 [13]
hardening and strength 1977 July p 82-90 [370]	brain, central nervous system cerebrum, neurophysiology, cerebral-
census, USSR. 1959 Sept p 104	cerebellar coordination 1958 Aug p 84–90 [38]
see also US census	brain organization, cerebral motor cortex, muscle control, monkey experiments 1973 July p 96-103 [1277]
center-pivot irrigation, irrigation, ground water, agricultural technology 1976 June p 90-99	cerebral cortex, brain, cerebrum, cerebellum, brain surgery,
1970 Julie p 30-37	electroencephalography, 'the great raveled knot', localization of
central city, US census, urbanization, age-sex distribution, baby boom,	brain function 1948 Oct p 26-39 [13]
family size, suburbs, US census at 1960 1961 July p 39-45 housing, urban planning, suburbs, cities, metropolitan area,	memory, brain, learning fundamental research, What is memory?
conurbation, evolution of the metropolis 1965 Sept p 64-74	1953 Sept p 118-126 [11]
tend poverment extres New York metropolitan region, suburbs,	creativity, neurophysiology, imagination, neuronal networks
Morthand Corndor regional planning 1900 Sept P 154-140	physiology of imagination 1958 Sept p 135–146 [65]
the making pitter highway engineering, mass transit, open space,	mammalian brain, corpus callosum, brain hemispheres split-brain
Junear Southat	experiments, monkey, cat, human post-operative subject 1964 Jan p 42-52 [174]
rentral nervous system, poliomyelitis virus, infective specificty, infective	animal behavior, learning striatum, bird nervous system, crows
specificity, enidemiology, nature of the disease and public hearts	pigeons, canaries, chickens 1968 June p 64-76 [515]
status before production of the vaccines 1950 Aug p 22-26	brain damage, speech, writing, brain hemispheres, functional
acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional illness, neurotransmitters, physiological psychology, chemical 1957 Feb p 86-94	organization of the brain 1970 Mar p 66-78 [526]
	information processing 1956 Oct p 72
han nercention motor iches,	see also visual cortex cerebral dominance, brain hemispheres, perception, split-brain
	experiments, corpus callosum, intelligence, language, localization of
	brain function 1967 Aug p 24-29 [508]
brain, cerebellum, cerebrum, neurophysiology, cerebral-cerebellar 1958 Aug p 84-90 [38]	brain hemispheres, left-hemisphere functions, music perception right-
	hemisphere functions, auditory perception, visual perception
- dustron ganglion fellexes.	1973 Mar p 70-78 15541
neuroreceptors, retina, nerve impuise, neurorece how cells communicate	auditory perception brain hemispheres, musical illusions handedness
synapse, cytology, neuromusculai synapse, in 1961 Sept p 209-220 [98]	hearing illusions, perception two-tone illusion 1975 Oct p 92-104 [566]
alability error suppression	heal homorehage surgery, cerebral vascular accident, atherosclerosis,
computer technology, redundancy, renaminy, etc. 1964 Feb p 103-112 [298]	microvascular surgery, repair and prevention of stroke by
	microvascular bypass operation 1978 Apr p 58-67 [1385]

erebral motor cortex, brain organization, cerebellum, muscle control,	digital computer, magnetic bubble memories, moving-surface
monkey experiments 1973 July p 96–103 [1277]	memories, semiconductor memories, microelectronics
······································	1977 Sept p 130-145 [378]
	find early application 1972 June p 52
erebral palsy, brain damage, birth trauma. asphyxia, monkey	charge distribution, atomic nucleus, nuclear fission, nuclear probe, sbell
experiments, implications for human infants	
1969 Oct p 76–84 [1158]	
cerebral vascular accident, surgery, atherosclerosis, microvascular surgery,	charge exchange, atomic nucleus, shell model, optical model, high-energy
cerebral hemorrhage, repair and prevention of stroke by	physics, liquid-drop model, spin-orbit force, resonance 'particles',
microvascular bypass operation 1978 Apr p 58–67 [1385]	proton, neutron, structure of the nucleus 1959 Jan p 75-82
cerebrospinal fluid, sleep deprivation, goat experiments	charge parity, see CP
1976 Aug p 24–29 [571]	charge parity time, see CPT
	charge transfer, charge-coupled devices, computer memory, image
cerebrum, brain, cerebral cortex, cerebellum, brain surgery,	sensing, semiconductor memories 1974 Feb p 22–31
electroencephalography, 'the great raveled knot', localization of	charm, antimatter, electron-positron annihilation, J particle, psi particle,
brain function 1948 Oct p 26–39 [13]	
brain, cerebellum, central nervous system, neurophysiology, cerebral-	color, quark, high-energy physics, storage rings, virtual particles
cerebellar coordination 1958 Aug p 84–90 [38]	1975 June p 50–62
Cerenkov radiation, Compton effect 1951 Oct p 54-55	charmed quarks, charmonium, high-energy pbysics, gauge theory,
high-energy physics, tachyons, speed of light, special relativity,	hadrons, leptons, quark hypothesis, 'color' and 'flavor' in quarks
hypothetical particles faster than light 1970 Feb p 68-77	1975 Oct p 38–50
for particle counting 1952 Aug p 33	hadrons, high-energy physics, quantum mechanics, quark, charm
cermets, composite materials, dispersion-strengthened composites, fiber-	1977 Oct p 56-70 [388]
reinforced composites, particulates 1973 July p 36-44	charmonium, charmed quarks, high-energy physics, gauge theory,
C.E.R.N.: European Organization for Nuclear Research	hadrons, leptons, quark hypothesis, 'color' and 'flavor' in quarks
C.F.R.N.: Entopean Organization for Nuclear Research	1975 Oct p 38–50
C.E.R.N., nuclear power, 'atoms for peace', thermonuclear reaction,	Chaucer, amateur astronomer 1952 Dec p 30
fission reactor, fusion reactor, first of a four-part report on the	· ·
International Conference on the Peaceful Uses of Atomic Energy,	Chediak-Higashi syndrome, brain disease, scrapie, kuru, virus disease,
Geneva, August 1945 1955 Oct p 27-33	animal vectors, multiple sclerosis 1967 Jan p 110-116
colliding-beam accelerator, high-energy physics, particle interaction,	cheetah, badger, dog, horse, locomotion, deer, comparative anatomy,
proton-proton interaction 1973 Nov p 36-44	running, how animals run 1960 May p 148–157
Bloch director 1954 Sept p 74	Chekhov, as physician 1974 Nov p 54
Bakker, director 1955 May p 50	chelate, poisons, ionizing radiation, radioautography, 'bone-seekers',
300-GeV particle accelerator 1971 Apr p 49	scintillation counter 1955 Aug p 34–39
ceruloplasmin, bemocyanın, oxygen transport, enzymes, copper	chelate cage, laser, liquid lasers, rare-earth ions, solvation shell,
deficiency, cytochrome oxidase, copper biochemistry, Wilson's	comparison of liquid, gas and solid-state lasers 1967 June p 80-90
1000 100 114	chelation, metal ions, sequestering, ring compounds, porphyrin ring,
	organometallic compounds, metal-poisoning antidote, chemical
cesium clock, atomic clock, ammonia maser, maser, zenith tube, mercury	
mirror, improvements on sidereal time 1957 Feb p 71–82 [225]	separation 1953 June p 68–76
length standard, mass standard, time standard, temperature standard,	berylliosis, occupational health, phosphorus, fluorescent light, high
interferometry, measurement 1968 June p 50-62	technology disease 1958 Aug p 27-33
cesium-ion beam, 10n propulsion, plasma jet, jet velocity,	hemochromatosis, lead poisoning pharmacology, drug action, Wilson's
magnetohydrodynamics, electrical propulsion, space exploration	disease, metal poisoning, heavy metal poisoning, bone cancer,
1961 Mar p 57-65	salicylates, aspirin, cancer therapy, chemotherapy, medical
cetacca, see whale, porpoises	exploitation of chelates 1966 May p 40-50
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis,	chemical accelerators, molecular beam, ion beam, sputtering, high-energy
malaria, filariasis, leishmaniasis, plague, yellow fever, typhus,	chemistry 1968 Oct p 44-52
epidemiology, animal infection and human disease	benzene, carbon chemistry, origins of life, high-energy carbon reactions
1960 May p 161–170	1975 Jan p 72–79
insect venom, assassin bugs, predator-prey relationship, entomology,	chemical analysis, infrared spectroscopy, molecular bonds, molecular
natural history 1960 June p 72–78	vibrations 1953 Oct p. 42–48 [257]
	1500 GOL P 42 10 [257]
chain reaction, free radicals, chain initiators, half-life reaction kinetics	prospecting, uranium ore, chemical prospecting 1957 July p 41–47
1953 Dec p 74–78	chemical band, glass, metals, materials technology, ceramics, polymers,
Challenger, oceanography, marine biology 1953 May p 88–94	composite materials, atom, elements, introduction to single-topic
chalone, cell-division depresser 1967 July p 44	issue on materials 1967 Sept p 68-79
chambered nautilus, marine biology, buoyancy, swim bladder, cuttlebone	chemical-biological warfare, bacteria, chemical weapons, biological
1960 July p 118–128	weapons Vietnam war, arms race, CS gas, virus disease, rickettsiae,
chameleon, hyla, catfish, skin color, chromatophores, how animals	tear gas, herbicide 1970 May p 15-25 [1176]
change color 1952 Mar p 64-67	US policy 1966 Apr p 49
chance, probability, odds, calculus of chances, causation, philosophy of	US policy 1970 Jan p 48
science, logician's point-of-view 1965 Oct p 44–54	Geneva Protocol 1975 Mar p. 47
Chandler wobble, earthquake effects, Earth rotation, precession	chemical bond, ionic bonds, covalent bonds, hydrogen bonds, Van der
1971 Dec p 80–88 [\$97]	Waals force, long-range forces, antigen-antibody reaction, proposed
Channeled Scabland, post-glacial 'catastrophe' 1974 June p 52	intermolecular long-range force 1948 Oct p 14–17
channeling, crystal structure, ion beam 1968 Mar p 90-98	
Charente skull, Homo sapiens Neanderthal man, Galley Hill skull,	radioactive decay, 'hot atom' chemistry 1950 Mar p 44-47 chemistry, molecular structure, crystal structure protein structure,
human evolution, Swanscombe cranium, antiquity of Homo sapiens	chemical Linetics science chemicia 1000 1050 1050 G
1948 July p 16–19	chemical kinetics, science, chemistry 1900-1950 1950 Sept p 32-35 quantum mechanics noble gases, compounds of 'inert elements'
charge carriers, electrical conductivity, Fermi surface, semiconductor,	dements, more gases, combonings of mert elements,
materials technology, quantum mechanics, electron mean free path.	Conformational someonem by the second 1964 May p 66–77
clectrical properties of materials 1967 Sept p 194-204	conformational isomerism, hydrocarbons, organic molecules
charge-changing accelerator, particle accelerator, Van de Graaf generator,	conformation and reactivity 1970 Jan p 58-70 [331]
electrostatic belt generator, negative ion 1970 Aug p. 24–33	aging radiation damage, free radicals, electron-spin resonance
electrostatic belt generator, negative ion 1970 Aug p 24–33 charge conservation, time reversal, symmetry, parity, lambda decay, CPT	spectroscopy, cifects of free radicals on living systems
conservation, proton spin, experiments in time reversal	1970 Aug = 70 82 (225)
	atomic nucleus energy levels, gamma radiation, molecular emission
1969 Oct p 88-101 charge-coupled devices, charge transfer, computer memory, image	MUSSIDAUCI SDECITOSCODS 1071 O 04 0-
	Chemical Colling and Colling C
sensing, semiconductor memories 1974 Feb p 22–31	chemical-compound reporting center, National Research Council
	1948 Oct p 25
	1346 Oct p 25

chemical defense, sawfly larva 1974 July p 48	philogiston theory, science history, Lavoisier, biography of Anton
chemical effects, ionizing radiation, photoelectric effect, Compton effect, cytology, free radicals, lethal effects of radiation 1951 Dec p 22-22	Livoriet 1956 May n
chemical equilibrium, chemical reaction, chemical kinetics, aliosterie	chemoreceptor, chemical senses, olfaction, taste
enzymes, proton transfer, enzymes, catalysis, relaxation methods in	taste receptors, blowfly 1952 Mar p 28-3: 1961 May p 13
chemistry 1969 May n. 30-41	mosquito repellants, mosquito targets 1975 July p. If
chemienl evolution, carbonaceous chondrites, meteoritic amino acids, meteoritic hydrocarbons, Oparin-Haldane hypothesis	chemosensors, see chemoreceptor
1972 June p 38-46 [902]	chemotaxls, salmon, fish migration, homing behavior, animal naviga
chemical experimentation, Boyle's law, pneumatics, science history,	1955 Aug p biolinnunescenee, firefly, insect behavior, insect physiology, lucife
philosophy 1967 Aug p 96–102	luciferase, biochemistry of biolumineseence
chemical industry, acceptence, plastics 1949 Jan p 16-21	1962 Dec p 76-89
plant growth, food production, fertilizers, agricultural technology, increasing world food supply 1965 June p 62-72	insecticide, insect attractant, synthetic attractants, odor-baited lur
Germany, recovering from war 1949 June p 28	pheromones, third-generation insecticides 1964 Aug. p 20-27 animal communication, pheromones, bullheads, catfish
plant expansion 1953 Mar p. 47	1971 May p 98–108 [
chemical kinetics, chemistry, chemical bond, molecular structure, crystal	animal navigation, herring, shad migration, homing behavior,
structure, protein structure, science, chemistry 1900-1950	temperature as migration control 1973 Mar p 92-98 [
1950 Sept p 32–35 Plante chemistry, flash tube, ram jet, heat, velocity, luminosity,	gypsy moth, biological pest control, pheromones, olfactory recepte sex attractants, silk moth, communication 1974 July p 28-35 [
spectroscopy 1953 May p 29-35	bacterial motility, cell motility, flagellar action, E coh
chemical reaction, allosterie enzymes, proton transfer, enzymes,	1976 Apr p 40-47 [
catalysis, chemical equilibrium, relaxation methods in chemistry	inscetieide, sex-hormone attractant 1953 Dec
chemical laser, laser, infrared radiation, chemical pumping	chemotherapy, lcukemia, leukocyte, caneer, virus, ionizing radiation,
1966 Apr p 32-39 [303]	Down's syndrome, origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 8
hydrogen-chlorine reaction 1965 Apr p 58	chelation, hemochromatosis, lead poisoning, pharmacology, drug
chemical milling, etching, metal cutting, operation of chemical mill	action, Wilson's disease, metal poisoning, heavy metal poisoning
1957 Jan p 104–112	bone cancer, salicylates, aspirin, cancer therapy, medical exploitation of chelates 1966 May p. 40
chemical mutagens, agronomy, plant breeding 1971 Jan p 86-95 [1210] chemical pesticides, U S legislation 1963 July p 64	exploitation of chelates 1966 May p 40 drug effects, liver function, pharmaeology, vaccine, hormone,
chemical publication, US leading 1948 Dec p 26	antibiotics, medical care, herbial medicine 1973 Sept p 102-
chemical pumping, chemical laser, laser, infrared radiation	eyanate, genetic disease, anemia, hemoglobin, erythrocyte, sickle ce
1966 Apr p 32-39 [303]	disease 1975 Apr p 44-50 [1] see also anubiotics, cancer therapy, nitrogen mustard and the like
chemical raw material, coal, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58-67	cliernozems, soil structure, podzols, latozols, tundra, alluvial soils,
chemical reaction, photolysis, photochemistry, reaction kinetics, free	agronomy, ecology of soil, soil erosion, the soils of the world and
radicals, spectroscopy, color centers, high speed chemistry	their management 1950 July p 30
1960 May p 134–145	cherry picker, mechanical harvesting, cotton picker, agricultural technology, tomato harvester, hay cuber, grain combine
nuclear reaction, hot-atom chemistry, hydrogen, chemistry at high velocity 1966 Jan p 82-90	1967 Aug p 50
chemical kinetics, allosteric enzymes, proton transfer, enzymes,	chess, see computer chess
catalysis, chemical equilibrium, relaxation methods in chemistry 1969 May p 30-41	chest X-rays, greater hazard than TB 1958 Jan p chick-embry o culture, virus, herpes simplex, symbiosis
catalysis, industrial processes, petroleum cracking 1971 Dec p 46-58	1949 Nov p 50-
computer modeling oscillating reagents, rotating chemical reactions,	influenza virus, immunization, hemagglutination, genetic variation,
non-linear reactions 1974 June p 62-93	vaccine, difficulty in securing flu immunization 1953 Apr p 27-
earbenes, carbon chemistry, molecular orbitals, reactive intermediates	rickettsiae, typhus, Rocky Mountain spotted fever 1955 Jan p 74- chicken, social behavior, pecking order, sexuality and dominance
cement, high-alumina cement, Portland cement, cement hardening and	1956 Feb p 42-46 [4]
strength 1977 July p 82-90 [570]	animal behavior, incubator birds, eggs, fowl, ornithology, hatching eg
chemical senses, olfaction, taste, chemoreceptor 1952 Mar p 28-32 [404]	in hot places 1959 Aug p 52- agricultural technology, poultry production, food production, animal
silkworm, olfaction, taste, insect chemoreception, comparative	husbandry, eggs. U S chicken factories 1966 July p 56-4
mbyrology 1938 Apr p 97-100	bone, calcium metabolism, eggshell, calcite, mobilization of calcium
shaming compounds, metal ions, sequestering, ring compounds,	from bone 1970 Mar p 88–95 [117 chicken pox, herpes zoster immune globulin 1969 Aug p :
porphyrin ring, organometallic compounds, metal-poisoning	child development, growth rate, Denver longitudinal study, changes in
annuole	proportion 1953 Oct p 65-76 [106.
1961 Oct p 30-07 (270)	mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [42]
chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring	Lorentz transformation, Einstein, relativity, child's view of reality
	1957 Mar p 46-5
hological weapons. Vietnam war, arms race,	adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Jan p 21-2
CS gas, virus disease, ricketisiae, tear gas, riche 15 25 [1176]	helianor self-esteem personality 1968 Fcb p 96~106 [51]
biological warrant	personality, parental care, infant behavior, temperament, interaction of temperament and environment, nature nurture
	1970 Aug p 102–109 [529]
	social discrimination, discrimination, group behavior, 'in vs out' group
plutonium, ultra-microchemistry, embryonic development, cytology, isolation of plutonium established a new research technology 1954 Feb p 76-81	discrimination 1970 Nov p 96-102 [530] eye-hand coordination infant perceptions, object concept, perceptual
isolation of plutonium established a new research 1954 Feb p 76–81	det element 1971 Oct p 30–38 (539)
heat, regenerative furnace, nitrogen fixation, temperature limits, high	cognitive development, human behavior, infant perceptions,
temperatures chemistry	Arril du arfiem emotional deprivation, growth hormone, deprivation
phlogiston, oxygen, Priestley, life and work of 3054 Oct p 68-73	dwarfism, 'bone age', anorexia nervosa 1972 July p 76-82 [1253]

cardinal numbers, mathematics education, mathematics history,	chloromy cetin, anemia side-effect 1952 Sept p 72
number concepts, ordinal numbers 1973 Mar p 101–109	qualified approval 1952 Oct p 44 chlorophyll, photosynthesis, carbon dioxide, water, tracer experiments
adolescence, medical care, growth hormone, 'bone age', menarche, heredity vs environment 1973 Sept p 34-43	1948 Aug p 24-35
behavioral regression, cognitive development, human behavior, infant	leaf color, anthocyanins, carotene, primary synthesis of aromatic compounds 1950 Oct p 40-43
perceptions, learning 1976 Nov p 38-47 [572] communication, language, social speech 1977 Feb p 100-105 [576]	carotenoids, chloroplast, photosynthesis, biology of pigments
24-year longitudinal study 1952 Sept p 76	1956 Jan p 80-86
Japanese children taller 1958 Aug p 52	tetrapyrrole ring, hemoglobin, cytochrome, respiration, enzymes, tetrapyrrole virtuosity 1958 Aug p 77–81
study in Great Britain 1973 Oct p 50 child health care, infectious disease, national health insurance, medical	tetrapyrrole virtuosity 1958 Aug p 77-81 photosynthesis, carotene, retinene, vision, photobiology, phototropism,
care, acute illness, chronic illness, delivery of medical care	bioluminescence, sunlight, life and light 1959 Oct p 92-108
1973 Apr p 13–17	ATP, photosynthesis, chloroplast, primary capture of light energy in photosynthesis 1960 Nov p 104-118
child psychiatry, autism, schizophrenia, psychoanalysis, emotional deprivation, 'mechanical boy' 1959 Mar p 116-127 [439]	photosynthesis, chloroplast, electron transfer, ATP, cytochrome,
behavioral psychology, autism, emotional illness, schizophrenia	pigments, role of chlorophyll in photosynthesis,
1967 Mar p 78–86 [505]	1965 July p 74–83 [1016] fossil record, organic molecules, sedimentary rock, gas
child psychology, vision, eidetic images, perceptual memory, 'photographic' memory 1969 Apr p 36-44 [522]	chromatography, hydrocarbons, 'chemical fossils'
birth order effect 1957 May p 70	1967 Jan p 32-43 [308]
indulge or discipline 1958 May p 60	vision, photosynthesis, photoperiodicity, visual pigments, phytochrome, retina cells, plant growth, light and living matter
child welfare, social indicators, state of the child, New York City 1976 July p 65	phytoemonie, reuna cens, plant growth, fight and fiving matter 1968 Sept p 174–186
children's humor, develops according to plan 1951 Nov p 34	chloroplast, photosynthesis, photochemistry, electron transport,
chilling test, common cold, virus disease, human subjects, Salisbury,	mechanism of photosynthesis 1969 Dec p 58–70 [1163]
England, study 1951 Feb p 39-45 chimera, chromosomal anomalies, genetic mosaic, gynandromorphism,	chloroplast, electron transfer, photosynthesis, light absorption 1974 Dec p 68-82 [1310]
organisms with tissue cells of different genes 1960 May p 118–130	in puffery vogue 1953 Feb p 39
chimney swift, life cycle, natural history 1954 July p 60–64	chloroplast, cytoplasmic inheritance, reciprocal crossing, maternal
chimpanzee, primate biology, Yerkes Laboratories 1955 Feb p 67–75	inheritance, sex linked traits, non-Mendelian inheritance, male sterility, paramecium, plastids, cytogene, review of evidence for an
primate behavior, social behavior, tool-using, comparative psychology, observation of chimpanzees in the wild 1962 May p 128-138 [463]	extra-chromosomal genetics 1950 Nov p 30–39 [39]
symbolic language, learning, operant conditioning, binary numbers,	extra-chromosomal genetics 1950 Nov p 30-39 [39] photosynthesis, grana, Hill reaction 1953 Nov p 80-84 carotenoids, photosynthesis, chlorophyll, biology of pigments
anımal behavior, chimpanzee learning arithmatic 1964 May p 98–106 [484]	carotenoids, photosynthesis, chlorophyll, biology of pigments 1956 Jan p 80-86
food sharing, hunting, carnivorous chimpanzees, omnivorous	ATP, photosynthesis, chlorophyll, primary capture of light energy in
chimpanzees, feeding behavior, Gombe National Park, Tanzania	photosynthesis 1960 Nov p 104–118
chimpanzee infant in human family 1973 Jan p 32-42 [382]	ATP, mitochondrion, photosynthesis, cell metabolism, glucogenesis, citric acid cycle, glycolysis, oxidative phosphorylation, cytology,
chimpanzee infant in human family 1951 July p 32 toolmaking 1964 July p 48	cellular transformation of energy 1961 Sept p 62–73 [91]
chimpanzee learning, ape language, animal communication, Sara learns	algae, photosynthesis, oxidative phosphorylation, Calvin cycle, path of
grammar to 'read' 1972 Oct p 92–99 [549] Viki's progress 1954 Feb p 48	carbon in photosynthesis 1962 June p 88–100 [122] cytoplasmic inheritance, maternal inheritance, extranuclear DNA,
Viki's progress 1954 Feb p 48 sign-language training 1969 Jan p 50	mitochondria, Chlamydomonas 1965 Jan p 70-79 [1002]
Sarah learning language 1971 July p 44	chlorophyll, photosynthesis, electron transfer, ATP, cytochrome,
China, economic development, rice, hybrid wheat, agricultural technology, hybrid rice, irrigation, livestock 1975 June p 13–21	pigments, role of chlorophyll in photosynthesis,
chinampa, canals, dramage, Mexican agriculture, agricultural system,	1965 July p 74–83 [1016] photosynthesis, photochemistry, electron transport, chlorophyll,
Aztec civilization, highly productive farm plots, Aztec empire	mechanism of photosynthesis 1969 Dec p 58-70 [1163]
1964 July p 90-98 [648] Chinese dialects, Chinese language, Chinese writing, tones, computer	oxygen cycle, photosynthesis, biosphere, aerobic metabolism, ozone, oxidation-reduction reactions, geological record, oxygen-carbon
translation, Mandarin Chinese 1973 Feb p 50-60	balance 1970 Sept p 110-123 [1192]
Chinese industry, technology, economic development, progress of	mitochondria, symbiosis, cell organelle, DNA, prokaryote origin.
People's Republic of China in computer electronics, instrumentation and control technologies 1972 Dec p 13–17	protein synthesis, plastids, cell evolution, extra-nuclear genetic activity in cell 1970 Nov p 22-29 [1203]
Chinese language, computer translation, pattern recognition, experiment	cell evolution, cell organelle, endosymbiosis, eukaryotic cells.
in machine translation 1963 June p 124–135 Chinese writing, tones computer translation, Mandarin Chinese,	mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella,
Chinese dialects 1973 Feb p 50-60	plastids 1971 Aug p 48–57 [1230] chlorophyll, electron transfer, photosynthesis, light absorption
Chinese remainder theory, computability theory, Diophantine equations,	1974 Dec. p. 68-82 [1310]
Hilbert program, mathematics 1973 Nov p 84-91 Chinese starcharts, supernovae, Tycho's supernova, Kepler's supernova,	ATP, oxidative phosphorylation, cell membrane, active transport
'guest stars', the seven observed supernovae 1976 June p 100-107	mitochondrion, formation of the energy-exchange molecule in the cell 1978 Mar p 104-123 [1383]
Chinese writing, Chinese language, tones, computer translation,	semiconducting solar battery 1957 Apr p. 72
Mandarin Chinese, Chinese dialects 1973 Feb p 50-60 Chingis Khan, cavalry, Mongol conquests, war, frontier history, nomatic	plastid DNA 1962 Mar p. 74
civilization, Chingis Khan, biography 1963 Aug p. 54-68	chlorpromazine, psychoactive drugs, tranquilizers, reserpine, Frenquel 1955 Oct p 80-86
Chladni patterns, bass cello, viola, violin music, musical instruments, physics of violins 1962 Nov p 78-93	cholera, disease, plague, yellow fever, epidemiology 1953 Ech p. 22, 27
Chlamydomonas, cytoplasmic inheritance, maternal inheritance.	bacterial toxin disease, medical care, sanitation, water supply,
extranuclear DNA mitocliondria, chloroplast	cholesteric, liquid crystals, soap bubbles, smeetic, nematic
1965 Jan p 70-79 [1002] chloramphenicol, antibiotics, penicillin, streptomycin, aureomycin,	1064 Ava = 76 ac
infectious disease, the antibiotic revolution 1952 Apr p 49–57	thoresteroi, steroid normones vitamin D, sex hormones cortisone
chlorella, algae, food production 1953 Oct p 31-35 chlorocruorin, hemoglobin hemocyanin blood pigments	atherosclerosis cardiovascular disease, human nutrition arteries
1950 Mar p 20–22	cpidemiology, coronary occlusion, diet, lipids plaque, artery wall
•	1966 Aug p 48–56

diet and heart disease hypothesis 1956 Feb p	56 DNA DNA
the hypothesis the hypothesis 1956 Apr p	Bernard odder Protein Synthesis, polymers, molecular
the hypothesis 1961 Feb p	
the hypothesis 1969 Sept p	
the hypothesis questioned 1977 Dag n	or
chondrites, extraterrestrial life, meteorites, panechesis, organic molanit	1700 Sail p 120-13
organic molecules in carbonaceous chondrites 1963 Mar. p 43-	in the state of th
chondrule, primordial dust cloud, solar system, shock waves, genesis	1701 3001 0 74-0217.
the solar system 1963 Oct p 64-	na Transfer of Cology, melosis, intestansin of Cell
clement formation, planets, solar system chemistry, space exploration	
stellar evolution 1974 Mar p 50-	Cr. The at carrier opinage, mapping genes by induced and
carbonaceous chondrites, meteorites, solar system, printordial dust	
cloud 1975 Feb p 30-	Barr body, sex differences, genetic mosaic, cytology, Klinefelter's
hypersthene meteorites' origin 1964 July p	
chondrule, oldest solar system rock 1963 Mar p 72-	
chondrites, primordial dust cloud, solar system, shock waves, genesis	
the solar system 1963 Oct p 64-1	in the property of the propert
chordates, salpa, marine biology, natural history 1961 Jan p 150-16	
chorinated by drocarbons, calcium metabolism, eggshell tlunning.	
pollution, DDT, dieldrin, avian reproduction, insecticide, food	histone in genetic expression 1962 Sept p 106
chain, ecological effect of pesticides 1970 Apr p 72-78 [117-	cliromosome breakage, radiation damage, ionizing radiation, mutation,
Christianity, cargo cult, religion, cultural anthropology. Melanesian carg	
cult 1959 May p 117-12	
Christmas cards, sociology of exchange 1971 Mar p 4	The state of the s
chromatic saturation, color perception, surface colors, line	
1975 Aug p 62-75 [56]	'cataclysmic evolution' 1951 Apr p 54-59 wheat, einkorn, wild einkorn, emmer, hybrid cells, fungi, plant
chromatid, chromosome replication, DNA replication, double helix,	breeding, origin and perfection of wheat 1953 July p 50-59
micromechanics of reproduction 1958 June p 36-42 [60]	chromosome mapping. Mendel's laws, mutation, science history, the gene
chromatin, leukocyte, nucleus, DNA, Micscher, spermatozoon nucleus,	on the eve of the resolution of the genetic code
hereditary material, discovery of DNA 1968 June p 78-88 [1109	
cell nucleus, chromosomal proteins, DNA, gene regulation, histones,	cancer, SV40 virus, gene transformation, tissue culture, somatic cells,
nucleoproteins, oxidative phosphorylation	hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
1975 Feb p 46-57 [1315	chromosome puffs, DNA, insect chromosome, RNA synthesis, hormonal
DNA packaging 1977 Nov p 72	
chromatography, fractionation, paper chromatography, amino-acid	chromosome replication. DNA replication, chromatid, double helix,
separation 1951 Mar p 35-41	micromechanics of reproduction 1958 June p 36-42 [60]
process control, automatic control, control systems, predictive control	mitosis, mitotic spindle, cell reproduction cell membrane, cell life cycle
1969 June p 112-120	1974 Jan p 54-64 [1288]
gas chromatography 1953 Sept p 82	chromosome structure, chemical dissection 1954 Sept p 80
cellulose column 1958 Aug p 50	
cellulose chromatography 1958 Aug p 50	radiation, Earth-Sun chromosphere-ionosphere interaction
chromatophores, hyla, chameleon, catfish, skin color, how animals change	1962 Feb p 50-59
color 1952 Mar p 64-67	magnetic field, solar magnetism, Sun cycle, photosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54-62
chromosomal anomalies, gene mutation, lethal heredity	
1952 July p 58-61	corona, echpse phenomena, photosphere, solar corona, Sun 1973 Oct p 68-79
genetic mosaic, gynandromorphism, chimera, organisms with tissue cells of different genes 1960 May p 118-130	chronic illness, infectious disease, national health insurance, medical care
cells of different genes 1960 May p 118-130 Down's syndrome, Klinefelter's syndrome, trisomy 21, genetic defect,	child health care, acute illness, delivery of medical care
meiosis, mitosis, gene translocation, nondisjunction, afflictions	1973 Apr p 13-17
associated with abnormal chromosome complement	morbidity, mortality rates, medical care, vital statistics, life expectancy
1961 Nov p 66-76 [150]	infectious disease, degenerative diseases, causes of death
Borr body sex differences, chromosome, genetic mosaic, cytology,	1973 Sept p 76-84
Klinefelter's syndrome, Turner's syndrome, sex differences in tissue	chronic myloid leukemia, No 21 or 22 chromosome implicated
calls 1963 July p 34-62 [161]	1961 Mar p 88
pattern recognition, computer analysis, computer graphics, computer	Chubb crater, fossil crater, meteoritic impact, cratering astroblemes 1951 May p 64-69
1966 Apr p 40-46 [1040]	ehymotrypsin, catalytic proteins, enzyme action, protein-cutting enzymes
embryonic development, oocytogenesis, meiosis, mitosis, mammalian	proteolytic enzymes, serum proteins, elastase, trypsin
	1974 July p 74-88 [1301]
dermatoglyphics, skin, epidermal ridges 1969 Dec p 72-84 [1164]	cichlid fish, marine iguana, rattlesnake, fighting behavior animal
chromosome, gene mapping, genetic disease, autosomes 1971 Apr p 104-113 [1220]	behavior, comparative psychology, oryx 1961 Dec p 112–122 [4/0]
deficiency genetic disease, prenatal genetic	cigarette smoking, carcinogenesis tobacco, human physiology, lung
	cancer, coronary disease, effects of smoking 1962 July p 39-51
1911 Kill P = 1 (1-4-1)	implicated in lung cancer 1950 July p 29
miscarriage embryos 1964 June p 59	implicated in deaths 1954 Aug p 37 cancer no inhibition 1955 May p 58
	cancer no inhibition (1955 May p. 58 public smoking bans (1956 Sept. p. 118
	cancer 1964 Feb p 66
histones, nucleoproteins, oxidative phosphory lation 1975 Feb p 46–57 [1315]	coronary disease 1965 Dec p 40
	mortality rates 1966 Apr p 48
chromosome, mutation, evolutionary diversity, science, genetics 1900- 1950 Sept p 55-58	emphysema in dogs 1966 Aug p 42
1950, one gene-one enzyme	coronary disease 1967 Oct p 48
1950, one gene-one enzyme heredity, DNA, RNA, nucleoproteins, protein synthesis, DNA heredity, DNA, RNA, nucleoproteins, protein synthesis, DNA 1953 Feb p 47-57 [28]	decline in U S 1968 Apr p 44 1969 May p 52
identified as agent of neighbor fractions agatingles	first decline in consumption 1969 May p 52 decline in U S 1969 May p 52
mutotic spindle, sea urching egg, digitothii, common 1953 Aug p 53-63	women 1970 Sept p 82
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life expectancy	1970 Oct p 53	air pollution, climate, heat emission, heat pollution, microclimate,
cardiac disease and CO	1974 Mar p 46	infrared photography, heat island, climate of cities
ilia, flagella, cytology, structure and function l	961 Feb p 108-116 [/9]	1967 Aug p 15–23 [1215] urban transport, computer modeling, personal-transit systems, systems
actinomyosin, cyclosis, muscle contraction, fla cytoplasmic streaming, actin, myosin, under	gena, cytology,	analysis, mass transit 1969 July p 19–27
	961 Sept p 184–204 [97]	American Negroes 1970 Apr p 46
ATP, axoneme, cell motility, flagella, microtub		citric-acid cycle, enzymes, co-enzymes 1949 Sept p 48–50 [15]
paramecium, sperm	1974 Oct p 44–52 [1304]	biochemistry, enzymes, virus, metabolism, co-enzymes, sulfa drugs,
eipher, cryptology, code, polyalphabetic systems	, rotor machine, history	antibiotics, science, biochemistry 1900-1950 1950 Sept p 62-68
and technology of making and breaking cip		ATP, muscle contraction, fermentation, energy transformation
* P 1 d 1 1 1 deat 6 diseases	1966 July p 38-46	1953 Apr p 85-92 ATP, mitochondrion, cell metabolism, mitochondrion as site of
circadian rhythm, biological clock, fiddler crab filariasis, parasitism, elephantiasis, tropical di	1954 Apr p 34–37	biological oxidation 1958 July p 56–62
mariasis, parasitism, elepitamiasis, tropicar di	1958 July p 94–101	acetylcholine, acetylcholinesterase, nerve gases, nerve poisons,
Annelida, feather duster worm, lugworm, biol		alkaloids, toxins, lethal mechanisms at cellular level
worm	1959 June p 132–142	1959 Nov p 76–84
basal metabolism, hibernation, homeothermy,		cytology, energy transformation, ATP, mitochondrion, glycolysis,
cırcannual rhythm, hypothalamus, squirrels		oxidative phosphorylation, membrane, energy transformation in the cell 1960 May p 102-114
animal behavior, biological clock, circannual	968 Mar p 110–118 [513]	cell 1960 May p 102–114 ATP, chloroplast, mitochondrion, photosynthesis, cell metabolism,
	1971 Apr p 72–79 [1219]	glucogenesis, glycolysis, oxidative phosphorylation, cytology, cellular
biological clock, house sparrow, photoperiodi		transformation of energy 1961 Sept p 62–73 [91]
nonvisual light receptors	1972 Mar p 22–29 [1243]	city as quarry, Classical archeology, Minturna, slow death of a city
biological clock, diapause, dormancy, insect b	ehavior, insect	1954 July p 66–70
, F,	76 Feb p 114-121 [1335]	city trees, pollution effects, tree cloning, ailanthus, ginkgo, London plane,
daily fluctuation as effect of X-radiation	1963 Mar p 78	Norway maple 1976 Nov p 110-118 Ciudad Guyana, urban planning, cities, land ownership, economic
circannual rhythm, basal metabolism, hibernatic circadian rhythm, feeding behavior, hypoth	on, nomeomermy,	geography, highway engineering, a model city in Venezuela
dormice in hibernation	968 Mar p 110–118 [513]	1965 Sept p 122–132
animal behavior, biological clock, circadian r		civil defense, fallout shelters, arms race, social psychology, counterforce
animal migration, manic depression	1971 Apr p 72–79 [1219]	strategy, social impact of fallout shelters 1962 May p 46-51 [637]
circle-grid analysis, crystal structure, metal stam	iping, sheet-metal	arms race, fallout, limited nuclear warfare, technology assessment,
production, strain hardening, metal structu circuit breakers, electric power, high-voltage cur	rent plasma arcs	flexible-response strategy, limited nuclear war 1976 Nov p 27–37 Congressional hearings 1950 Jan p 26
offent ofenters, effective power, ingit-voltage en	1971 Jan p 76–84	Congressional hearings 1950 Jan p 26 Congressional hearings 1950 May p 26
circular error probability, see CEP	r .	counterforce strategy, civil defense revived 1976 Oct p 57
circulation of the atmosphere, see atmospheric	circulation	civil rights, racial discrimination, Amerindian, genocide, cultural
circulation of the oceans, see ocean circulation		assimilation, persisting identity of Amerindians 1960 Feb p 37-45
circulatory disorders, medical diagnosis, thermo	ography, tumor, arthritis, 1967 Feb p 94–102	class discrimination, Harijans, untouchables, caste, Hinduism, India
skin temperature circulatory system, thermoregulation, cold adap		1965 Dec p 13-17 communication, freedom of expression, US First Amendment
	1966 Jan p 94-101 [1032]	1972 Sept p 163–172 [680]
circumcision, questioned	1970 Nov p 45	for mentally ill 1950 Nov p 26
cities, urban density, form of cities	1954 Apr p 54-63	civil rights movement, crime incidence reduced 1965 May p 48
raeial diserimination, social geography, Ame metropolitan segregation	1957 Oct p 33–41	civilian morale, atomic bomb, strategic bombing, 'bomb not absolute' weapon' says PMS Blackett 1949 Mar p 19
social evolution, social behavior, human evol	lution, urban revolution.	weapon' says PMS Blackett 1949 Mar p 19 civilization, genetic adaptation, human evolution, natural selection,
	1960 Sept p 153-168 [606]	culture, human evolution in man-made environment
Industrial Revolution, urbanization, populat		1960 Sept p 206–217 [609]
to a single-topic issue on cities	1965 Sept p 40-53 [659]	clams, bivalves, marine life, mollusks, symbiosis 1975 Apr p 96–105
urbanization, Industrial Revolution, agricult communication, origin and evolution of ci		clap-fling mechanism, aerodynamics, animal behavior, bird flight, insect
housing, urban planning central city, suburb		flight, flip mechanism, hovering flight, lift generation 1975 Nov p 80-87 [1331]
conurbation, evolution of the metropolis	1965 Sept p 64-74	clarinet, musical instruments, vibrating air column, oboe, flute, bassoon,
shantytowns, Calcutta, urbanization, caste, l		English horn, saxophone, physics of the wood winds
Calcutta, a city of the poor land use, urban planning, Stockholm, land o	1965 Sept p 90-102	1960 Oct p 144-154
Stockholm as a planned city	1965 Sept p 106–115	class discrimination, Harijans, untouchables, caste, Hinduism, India, civil
urban planning, Ciudad Guyana, land owne	ership, economic	along distinction of
geography, highway engineering, a model		Classical archeology, Agora, Athens 1950 Nov p 28 Classical archeology, Agora, Athens 1950 Aug p 46–51
local and a New Year materiality of	1965 Sept p 122-132	Minturna, city as quarry, slow death of a city 1954 July p. 66-70
local goverment New York, metropolitan re Northeast Corridor, regional planning	egion, central city, suburbs, 1965 Sept p 134-148	commerce, underwater archeology, Roman empire, amphora
housing land use, population density, shant		Miconggon gualty 1954 Nov p 98–104
government regulation urban planning, c	ontrol of land use	Mycenaean civilization, burial treasure, Agamemnon, dig started by Schliemann continues
and the second	1965 Sept p 150-160	Greek civilization, Mycenaean civilization, Linear B series, Pulos, King
railway, traffic patterns, commutation, mass transportation Bay Area Rapid Transit s	s transit, automobile,	1 105 No. 110 121
transportation bay Area Rapid Transit's	1965 Sept p 162–174	Antikythera planetary motion Greek computer angient instrument
air pollution, water supply, sewage disposal,	smog, water pollution	science mstory, computer technology, 2,000-year-old computer
taxation, Los Angeles New York, metabo	olism of cities	Mycenaean civilization castle, nuraghi, building construction, 1000 BC
urban renewal, slums housing, relocation e	1965 Sept p 178-190	proto-castics in Saldinia
planning US experience with Federal si	inition domain, urban	Bronze Age, burial site, Greek colony Bahrain Sumarian Indian
	1065 Capt p 104 204	Culture IIIIA
urban planning, central city, highway engin	eering, mass transit open	tablets described the instocies, Salamis, Battle of Salamis, 480 B C.
space diversity, 'paths'	1965 Sept p 209-219	Etruscans of armony of Fr. 1961 Mar p 111–120
		1962 Feb p 82–94

Brauron, Greck civilization, 500 B C temple 1963 June p 110-12	O atmosphase and a second
Greek civilization, Cumae, Italy, 8th c B C Greek colony first in Italy	1969 Sent n 76.86
tunnel of Enpalinus, Samos, Greek civilization, water supply, feat of	giaciation since ice Age, mountain glaciers, sea-ice fluctuations, glacier
Classical engineering 1964 lune p. 104_11	1070 has 100.110
Cartlinge, Roman colony, archeological 'rescue' campaign	
1978 Jan p. 110-120 1704	circulation, occan circulation, terrestrial radiation, carbon dioxide 'window', Earth energy cycle 1970 Sept. p. 54-63 [1]89]
burial mounds at Marathon 1970 July p 52	air pollution, atmospheric circulation, earlier diavide franchist
fall of Minon a collapse 1976 Apr. p 50	particulates, ozone, temperature of Farth, human actuaty and
Bronze Age bull-leaping 1976 Aug p 44D	climatic change 1971 Jan p 32-42 [894]
Classical physics, Anstotic, appraisal of a physicist of more ancient fame	dendrochronology, radiocarbon dating 1972 May p 92-100 [1250]
than Newton 1950 May p 48-51 field theory, high-energy physics, quantum fields, elementary particles,	
with 20 particles known, a review of the theoretical foundations of	1976 Feb p 88–99
physics 1953 Apr p 57-64 [208]	cultural evolution, hunter-gatherer societies, Nile prehistory, Paleolithic settlements, stone tools 1976 Aug p 30-38
classified research, stops at M.I.T. 1969 June p. 54	Paleolithic settlements, stone tools 1976 Aug p 30-38 carbon 14 abundance, ice ages, Maunder minimum, solar physics,
resumes at M 1 T. 1969 July p 50	sunspots, dendrochronology 1977 May p 80-92 [925]
halted at Columbia and Stanford 1970 Mar p 58	carbon dioxide 'window', atmosphere, biomass, ocean sediments,
Project Camelot 1971 May p 45	humus, 'greenhouse effect', threat of 'greenhouse effect'
'counter-insurgency research' in Thailand 1972 Jan p 47 military secrecy, controversy engages trustees, faculty, students	
1973 Jan p 44	building construction, Cape Cod cottages in California
military secrecy, laser-induced fusion 1973 Feb p 46	
clathrates, inclusion compounds, crystallography, gas hydrates, inclusion	oxygen isotopes, temperature measurement, foraminifera, abyssal
compounds in biology and technology 1962 July p 82-92 [280]	sediments, paleontology, glaciation, measurement of ancient
clay, quick clay, landslide, formation and properties of quick clay	temperatures 1958 Feb p 54-63
1963 Nov p 132-142	glaciation, solar radiation, solar evolution and terrestrial climate
clay figurines, Maccdonia, Nea Nikomedeia, Neolithic village, domestic	1958 June p 85–92 [835]
animals, agricultural society, oldest Neolithic site in Europe 1965 Apr p 82-92	algac, coral, coral rings, fossil reefs, paleontology, dating by coral rings 1966 Oct p 26-33 [871]
Clean Air Act, air pollution, emission standards, Environmental	water erosion, rivers, drainage patterns, river evolution
Protection Agency 1973 June p 14-21	1967 Apr p 84-94
cleaning behavior, ecological niche, symbiosis, reef ecology, animal	coral reefs, energy cycle, fossil reefs, marine ecosystems, reef evolution
behavior, behavioral integration of reef ecology	1972 June p 54-65 [901]
1961 Aug p 42–49 [135]	climatology, Antarctica, solar radiation, atmospheric circulation, albedo, Antarctica in Earth's heat budget 1962 Sept p 84-94 [859]
cleft palate, congenital anomalies, fetal injury, embryonic development, teratogenesis, rubella, teratology 1957 Oct p 109-116	Antarctica in Earth's heat budget 1962 Sept p 84-94 [859] climax ecosystem, forestry, spruce, balsam, birch, climax forest of
client-centered' therapy, psychotherapy 1952 Nov p 66–74 [448]	Northeast US 1948 Nov p 20–23
Clifford, mathematics, science history, life and work of William Kingdon	solar radiation, photosynthesis, biosphere, agricultural ecosystem,
Chfford 1953 Feb p 78-84	energy cycle, ecosystem, food chain, respiration, biosphere energy
climate, cloud seeding, weather control, does control of weather	cycle 1970 Sept p 64-74 [1190] clock paradox, artificial satellite, relativity theory, Mercury, stellar shift,
constitute a climatic hazard? 1950 Apr p 48-52 volcanoes, dust, solar radiation, world climate and volcanic activity	electromagnetic frequency shift, perihelion shift, general relativity,
1952 Apr p 74–80 [843]	testing Einstein's general theory of relativity 1959 May p 149-100
Mars, polar cap, desert, atmosphere, 'canals', picture from Earth-	Pythagorean theorem time, special relativity 1963 Feb p 134-144
bound study 1953 May p 65–73	long-lived mesons 1957 Mar p 63
trade wind clouds, atmospheric circulation, cumulus clouds, ocean-	special relativity demonstrated with help of Mossbauer effect 1960 Dec p 76
atmosphere interface 1953 Nov p 31-35 Earth, glaciation, Antarctic glacier, sea level, hydrologic cycle	clone, cancer, tissue culture, drug research, somatic cells, technique and
1955 Sept p 84-92 [809]	uses of tissue culture 1956 Oct p 30-33
weather solar wind tonosphere, meteorology, coronametry, Earth's	HeLa cancer cells, cell culture, somatic cells, tissue culture, single
weather and solar wind 1957 Apr p 138-148 [849]	human cells 1957 Aug p 91–100 [33] cell diffe ' 'brush' chromosome,
plant growth, greenhouse, agronomy, photoperiodicity, day-night	cell diff: 'brush' chromosome, embr_ ovum, cytology, how
temperature, 'phytotron', environment simulator 1957 June p 82-94	cells specialize 1961 Sept p 124–140
according abyse currents in the abyss 1958 July p 85-90	tissue culture, meiosis, mitosis, plant cell differentiation, generation of
marshland, swamp, ecology, eutrophication, wettands, natural instory	whole organism from tissue cell (carrot) 1963 Oct p 104-113
of march effect on climate 1938 UCL p 114-122 [040]	muscle tissue, embryonic cells, cell differentiation, cell culture, origin of muscle in embryonic development 1964 Aug p 61-66
carbon dioxide 'window', meteorology, air pollution, fossil fuel, threat	cell differentiation, nucleus transplantation, genetic engineering
of greenhouse street, aurora horealis. Van Allen belts, orbital	somatic cell nucleus, gene complement, frog embryo gene regulation
and a standard only color narricle millione off Lai to action process	1968 Dec p 24–35 [1128]
1939 Aug D 31-93 (001)	potato plants from tissue cell 1978 June p 83 closed cycle, cryogenic technology, Stirling cycle, refrigeration hot-air
anthropology, human evolution, steatopygia, human migration, race,	engine displacer 1965 Apr p 119–12/
population, genetic variation, ancient migration and human diversity 1960 Sept p 112-127 [604]	'closed' universe, cosmology, 'big bang' theory, 'open' universe universe
orchitecture, primitive architecture, igloo,	expansion, deuterium abundance, age of elements, average density
teepee, yurt, tent, sod hut, adobe house, hogan, stilt house	l976 Mar p 62-79 clothing, insulation, objective, physical standards for warm
	1931 Mar p 56-60
grape fermentation, wine, yeast, viticulture, enzymes, chemical	behavioral adaptation homeothermy, clothing and body-temperature
explanation of a good wine, force of children 1964 Aug p 46-56 [190]	control 1956 Feb p 109-116 cloud, meteorology, wind, lee waves, soaring glider, esthetic exploitation
Page Current, Inca civilization, New World archeology, environmental	a floor mar of 124-134
Peru Current, Inca civilization, New World architectures 1965 Oct p 68–76 influences on early Peruvian cultures 1965 Oct p 68–76	at a strosphere mesonause meteoritic dust, condensation nuclei.
air pollution, cities, heat emission, neat pollution, mass of cities	rocket-borne collectors sample noctificent clouds
infrared photography, heat island, climate of cities 1967 Aug. p 15-23 [1215]	1963 June p 50-59

1967 Aug. p 15-23 [1215]

cloud chamber, bubble chamber, liquid hydrogen, superheated fluid	coal technology, technology history, Industrial Revolution iron smelting, blast furnace, Newcomen engine 1974 Aug p 92-97
1955 Feb p 46-50 [216] spark chamber, particle accelerator, bubble chamber, particle tracks	fossil fuel, technology history, Industrial Revolution, 16th c energy
spark chamber, particle accelerator, busble chamber, particle fracks 1962 Aug p 36-43	crisis, wood-fuel shortage 1977 Nov p 140-151 [391]
cloud chamber design, build your own! 1951 Jan p 29	technology assessment, coal-slurry pipelines 1978 Mar p 70
cloud physics, meteorology, condensation nuclei, ocean foam, salt	Coanda effect, fluid dynamics, amplifiers, switching, logic gates
particles, rain, seasalt and rain 1957 Oct p 42–47	1964 Dec p 80-88 aerospace technology, fluid dynamics, aerodynamics, propulsion,
snow crystals, hexagonal habit, bullet clusters, tsuzumi crystals,	nozzles, burners, nature and applications of Coanda effect
variations on a theme 1973 Jan p 100-107 cloud seeding, climate, weather control, does control of weather	1966 June p 84–92
constitute a climatic hazard? 1950 Apr p 48-52	coated optics, optical interference coatings, light reflection, light
weather control, silver iodide, Project Cirrus, condensation nuclei, dry	transmission, dielectric mirrors, laser, interferometry
ice 1952 Jan p 17–21	1970 Dec p 58-75 coaxial cable, carrier-wave modulation, communication technology,
water cycle, air pollution, water drop, ice crystals, fog, inversion layer,	electromagnetic spectrum, fiber optics, radiowave, communication
to trigger air mass movement 1950 Sept p 48	channels, bandwidth, noise 1972 Sept p 98-113
need for planning 1954 Feb p 46	cobalt, magnetism, magnetic domains, iron, ferrites 1955 Jan p 68-73
effective rainmaking 1957 July p 64	trace elements, desert ecology, land reclamation, vitamin B12 synthesis,
cloud structures, radar, weather observation 1953 July p 34–38	agncultural technology, reclamation of infertile Austrialian land 1959 Jan p 97–106
Clouds of Magellan, galactic center, nebulae, globular cluster stars, Southern sky, Eta Carina, astronomical riches of the southern sky	cobalt-rare earth alloys, magnetism, permanent magnets, magnetic
1952 July p 46–57	domains, anisotropy, Alnico 1970 Dec p 92-100
universe expansion, Cepheid variable, Andromeda Galaxy, galactic	cocaine, anesthesia, pain, procaine, surgery, medical research,
yardstick, doubling of yardstick doubles size and age of the universe	neuropharmacology, pharmacology, psychiatry, research in pain
1953 June p 56–66	suppression 1957 Jan p 70-82 alkaloids, plant physiology, morphine, strychnine, 'hemlock',
spiral galaxies, radio astronomy, galactic structure, resolution of structure of nearest galaxies 1956 Apr p 52-58	physostigmine, caffeine, contine, quinine, ricinine, LSD, human
galaxy, stellar evolution, ultraviolet radiation 1964 Jan p 32-41	toxins in plant physiology 1959 July p 113-121 [1087]
radio source outside Earth's galaxy 1963 Oct p 59	drug addiction, addiction fashionable 1977 Nov p 75
supernova remnants 1976 June p 49	coecidioidomy cosis, histoplasmosis, fungal infection, respiratory infection, airborne infection, epidemiology 1948 June p 12–15
'cloudy crystal ball', atomic nucleus, nuclear structure, neutron cross sections, 'model atom' 1955 Dec p 84-91	Cochise culture, New World archeology, Folsom man, stone tools
Clovis culture, hunting, mammoth-bone deposits, Folsom points, New	1951 Feb p 15–19
World archeology, elephant extinction 1966 June p 104–112	New World archeology, Pine Lawn Valley, Mogollon culture, 2500
mammoth-bone shaft wrench 1968 Mar p 54	B C to 1300 A D in New Mexico 1951 July p 46–51
cluster, see galactic clusters, globular cluster stars cluster-seeking algorithms, pattern recognition, computer technology,	cochlea, deafness, ear, directional orientation, hearing 1957 Aug p 66-78 [44]
reading machines 1971 Apr p 56–71	attention mechanism, speech perception, hearing, phonetics,
co-enzymes, enzymes, citric-acid cycle 1949 Sept p 48-50 [15]	neuropsychology, hearing two messages at a time
biochemistry, enzymes, virus, citric-acid cycle, metabolism, sulfa drugs,	1962 Apr p 143–151 [467]
antibiotics, science, biochemistry 1900-1950 1950 Sept p 62-68 CO ₂ acceptor process, coal gasification, energy resources, gasification	cockroach, woodroach, endocrinology, cockroach as laboratory animal 1951 Dec p 58-63
processes, Lurgi process, Hygas process, synthane process, coal	regeneration, cell differentiation embryo-graft experiments, embryonic
technology 1974 Mar p 19-25	development, new t, biological form 1977 July p 66-81 [1363]
coal, fossil, flora, Mississippian period, Pennsylvanian period,	cocoon, insect metamorphosis, silkworm, neurophysiology, insect behavior, cocoon record of silkworm spinning movements
Carboniferous period, tropical flora, deposition of coal 1948 July p 46-51	1956 Apr p 131–140
fossil fuel, underground gasification of coal 1950 June p 52-55	code, cryptology, polyalphabetic systems, rotor machine, cipher, history
chemical raw material, fossil fuel, coking, 'water gas' process,	and technology of making and breaking ciphers and codes
hydrogenation 1955 July p 58-67 energy resources, natural gas, oil reserves, energy economics, fossil fuel,	1966 July p 38-46 code security, computer privacy, cryptography, data-bank confidentiality
impending petroleum shortage 1956 Oct p 43–49	1973 May p 15–23
Antarctica, fossil fauna, fossil flora, geology, paleontology,	codeine, analgesics, morphine, opium, poppy, heroin, Bentley's
Glossopteris, continental drift evidence 1962 Sept p 168–184 [863]	compound, drug action, search for strong, safe analgesic
fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy	1966 Nov p 131-136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes
resources 1972 Oct p 26-35	triplet codon 1955 Oct p 70–78
energy resources, gasification processes, Lurgi process, Hygas process,	DNA, genetic code, base triplets, protein synthesis, nucleotide
synthane process, CO ₂ acceptor process, coal technology	sequence, base implet established as codon 1962 Oct p. 66-74 [123]
1974 Mar p 19-25 coal hydrogenation, coal liquefaction, energy economics, energy	coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p. 72–78 [837]
resources, oil and gas from coal 1976 May p 24–29	before present 1961 Mar p 72-78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34-39 [831]
competes with coking 1952 July p 35	coenzyme A: pantothenic acid
coal liquefaction, fossil fuel, petroleum reserves, coal reserves energy consumption, liquid-fuel consumption, shale, tar sands, the fuel	coenzyme A, fat metabolism, fatty acids, ATP, cnzymes
problem 1949 Dec p 32–39	1954 Jan p 32-36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis
coal hydrogenation, energy economics, energy resources oil and gas	not breakdown in reverse 1960 Feb. p. 46. 51
Federal fundamental 1976 May p 24–29	coesite, artificial diamonds, lithosphere, ultra-high pressure, borazon
coal mining, land reclamation, strip mining 1975 Dec. p. 23-29	properties of matter under 2×10^5 ns. 1959 No. p. 61.67
coal reserves, fossil fuel petroleum reserves energy consumption hauid-	meteorites, astroblemes shatter cones, cratering, fossil Earth- catastrophes 1961 Aug p. 50, 58 (2012)
ruel consumption, shale, tar sands, coal liquefaction, the fuel	found in nature
proofers 1949 Dec p 32–39 iron ore, steel markets transportation changing geography of steel	Arrana Darringer Craicr
1057 Inm - 44 52	cognitive development, entid development, human behavior, infant
coal-far enemistry, dve, science lustory, mauseine 'Perkin reaction',	behavioral regression, child development human behavior and
1957 Feb p 110-117	perceptions learning 1976 Nov p 38–47 [572]
	13 10 1 0 p 30-47 [372]

cognitive dissonance, human behavior, social psychology, experiments in	callidara beam accolorator qualitare and
preperception 1962 Oct p. 93_102 (472)	colliding beam accelerator, cyclotron, synchrotron, high energy physic strong-focusing synchrotron, design and purposes of big accelera
concrem radiation, radar, nucrowayes, spectroscopy, molecular bonds	o the street and purposes or organization
resonance absorption, energy levels, quantum tunips, quantum	1958 Mar p 64-76 [high-energy physics, storage rings, synchrotron, particle accelerator
electrodynamics, time-keeping, foundation of maser laser	spark chamber 1966 Nov p 107-116
technology 1948 Sept p 16-23	antimatter, high-energy physics, electron-
maser, nuerowaye amplification, stimulated emission, quantum	positron annihilation proton parton model guardian
mechanics, principles and uses of maser 1958 Dec p 42-50 [215]	cleetrodynamics 1973 Oct p 104-
laser, maser, stimulated emission, first lasers as 'optical masers'	high-energy physics particle interaction proton-proton interaction
1961 June p 52-61 [274]	CERN 1973 Nov p 36
molecular beam, electron theory, resonance absorption, atomic	particle accelerator, new orders of collision energy 1978 Mar p
radiation, gas molecules, nuclear magnetic resonance, Stern-Gerlach	colliding galaxies, galactic clusters, radio astronomy, powerful signals
experiment 1965 May p 58-74	may extend reach of astronomy 1956 Sept p 125-
interference, Brillouin scattering, energy levels, laser light	colonial building, white pine, North American forests, Royal Navy, Kir
Calcoring Assert days 1968 Sept p 120-136	Broad Arrow, American Revolution 1948 June p 48
Colionina, Amerindian, Hayasupai, Paleolithic culture, prelistoric man in the Grand Canyon 1958 Feb p 97-102	colonialism, pidgin, linguistics, Creole, gullah, grammar, evolution and
the Grand Canyon 1958 Feb p 97-102 coins, archeology, statistics, numismatics, Taxila hoard, India	elaboration of colonial languages 1959 Feb p 124-
toms, archeology, vianvines, numisinancs, raying noard, main	colonization, human population, human migration, immigration policy
counterfeiting, numismatics, Roman Britain 1966 Feb p 102-111 1974 Dec p 120-130	slave trade 1974 Sept p 92-i
counterfeiting, numismatics, Roman Britain 1974 Dec p 120-130 coking, coal, chemical raw material, fossil fuel, 'water gas' process,	color, stellar evolution, short-lived stars, main sequence
hydrogenation 1955 July p 58-67	1953 Mar p 34
colchicine, chromosome doubling, plant genetics, hybrid cells,	spectroscopy, materials technology, photoelectric effect, laser transparency, optical properties of materials 1967 Sept p 238-2
'cataclysmic evolution' 1951 Apr p 54-59	photoelectric effect, reflection, refraction, light, resonance absorption
arthritis, gout, metabolism, chemistry of gout 1958 June p 73–81	photon, electron, interaction of light with matter
cold adaptation, Arctic flora, desert adaptation, paleobotany, Greenland	1968 Sept p 60-
flora, adaptations to Arctic climate 1956 Feb p 88-98	antimatter, electron-positron annihilation, J particle, psi particle,
caribou, rodent, moose, polar ecology, animal adaptation to Arctic	charm, quark, high-energy physics, storage rings, virtual particles
1960 Jan p 60-68	1975 June p 50-4
adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,	color and illumination, color vision, reflection, 'retinex' theory, visual
metabolism, neonatal physiology, heat production in newborn	perception, visual pigments, 'color Mondrian' experiment
animals, including man 1965 Aug p 62-65 [1018]	1977 Dec p 108-128 [139
circulatory system, thermoregulation, fur, metabolism, insulation	color blindness, sex linked traits, dichromatism, physiology and
1966 Jan p 94-101 [1032]	psychology of a vision defect 1951 Mar p 48-5
'cold-blooded' animals, behavioral adaptation, pigmentation,	cone cells, fovea, genetic disease, retinal image-processing, visual
thermoregulation, lizard, reptile, behavioral thermoregulation	pigments 1975 Mar p 64-74 [131]
1959 Apr p 105–120	color centers, photolysis, photochemistry, chemical reaction, reaction kinetics, free radicals, spectroscopy, high speed chemistry
ectothermy, metabolism, heterothermy, insect flight, sphin moths,	1960 May p 134-14
temperature regulation, Mandura sexta warm-up mechanisms 1972 June p 70-77 [1252]	color discriminination, in cats 1964 June p 5
cold cathode, electron beam, current density, X-ray photography, field	color fusion, color scission, perceptual transparency, physical
emission 1964 Jan p 108-118	transparency, optical illusion, transparency, visual perception
'cold light', bioluminescence, glow worm, firefly, abyssal fish, luciferase	1974 Apr p 90-98 [559
1948 May p 46-49	color holography, holography, laser, microscopy, white-light
cold war, economic development, nulitary expenditures, politics of aid,	reconstruction 1968 Feb p 40-48
'rich' nations, 'poor' nations 1972 Apr p 15-21	color perception, insect eye, compound eye, optical resolution, insect behavior 1948 July p 42-45
colicine, ATP, cell membrane, membrane energetics, active transport, E 1975 Dec p 30-37 [1332]	behavior 1948 July p 42-45 vision, form perception role of experience in visual perception
1000 5 01	1949 Aug p 52-55
colicine-K, action defined 1959 June p 81 collagen, proteins, beta chain, alpha helix, polypeptide synthesis,	eve vision, refinal proments, cone cells, trichromaticity implies three
polymers, anuno acids, synthesis and architecture of proteins	cone pigments 1962 Nov p 120–132 [139]
1957 Sept p 173-184 [7]	surface colors chromatic saturation, bue 1975 Aug p 62-75 [565]
election begating myosin fibrin, cell, polymers, polymers in living cells	frog's blue preference 1963 Jan p 62
[957 Sept p 204-216 [35]	cone cells of three kinds 1964 May p 60
proline, hydroxyproline, collagen fibril, tropocollagen, connective	color photography, science history, Maxwell's color photograph first three-color photograph 1961 Nov p 118-128
terms notice and properties of most abundant protein	three-color photograph 1961 Nov p 118-126 emission nebulae interstellar gas, ionization, nebular luminosity
1901 Way p 120-130	1974 Oct p 34-43
aging, tendons, biological age 1963 Apr p 104-114 [155]	from silver-halide emulsions 1951 Jan p 30
bone, piezoelectricity, osteogenesis, calcium metabolism, bone bone, piezoelectricity, osteogenesis, calcium metabolism, bone bone, piezoelectricity, osteogenesis, calcium metabolism, bone bone, piezoelectricity, osteogenesis, calcium metabolism, bone	color scission, color fusion, perceptual transparency, physical
adaptation to incomment on leukocyte, fibroblasts, epidermal cells	transparency, optical illusion, transparency, visual perception
wound healing, regeneration, related 1969 June p 40-50 [1144]	1974 Apr p 90~98 [559]
elastin, fibroblasts, microfibrils 1971 June p 44–52 [1225]	color television, picture elements, line structure, field-scanning rate technology assessment, competing color television systems weighed
	1950 Dec p 13-17
	compatability with black and white 1950 Oci p 25
- Illa conoce in dispase 17/7 1'U' P 77	httgation continues 1951 July p 28
collagen-cutting enzyme, collagenase in unstable collagen, proline, hydroxyproline, tropocollagen, collagen, proline, hydroxyproline, tropocollagen, collagen, proline, and properties of most abundant protein	designed by EO Lawrence 1951 Nov p 33
connective tissue. Haluic and proportion	hack to the laboratory 1931 Dec D 34
1965 June p 61	Color vision, learning, conditioned behavior, behavioral psychology, Skinner box, visual discrimination pigeons conditioned to respond
collagen structure, helix and superhelix collective-effect accelerators, electron-ring accelerator, particle 1972 Apr p 22-33	to discrete wavelengths of light 1958 Jan D 77-82 [403]
collective-effect accelerators, electron-ring accelerators 1972 Apr p 22–33 accelerator, particle-storage rings	menal perception, "long" and "short wavelengths in color perception
accelerator, particle-storage rings collector ions, flotation, nuneral separation, surfactant, bubbles, ore 1956 Dec p 99-110	1959 May p 84-99 [223]
beneficiation college graduates, intellectual resources of U.S., doctorates, test scores 1951 Sept. p. 42-46	1962 May p. 62-72 [465]
college graduates, intellectual resources of U.S. doctorates, 1951 Sept. p. 42-46	vision, visual adaptation, distribution of the visual perception constancy effect, neutral colors 1963 Jan p. 107-116 (474)

afterimages, photochemistry, sensory discrimination, visual pigments,	infant speech, language, learning, meaningful consistencies in infant
photochemistry of color perception 1963 Oct p 84–93 [1089]	babble 1949 Sept p 22–24 [417]
amphibian, frog, retina, retinal image-processing, visual perception,	electronics, electron tubes, amplifiers, communication technology,
retinal processing of visual sensation 1964 Mar p 110–119	rectifiers, electron optics, cathode-ray tube, power, thermionic
retina, cone cells, pigments, ganglion cells, spectrophotometry, three-	emission state of the technology 1950 Oct p 30–39
color receptor system 1964 Dec. p. 48–56 [197]	leadership, social psychology, 'work patterns profiles', people in groups 1951 Feb p 26-28
color and illumination reflection, 'retinex' theory, visual perception,	microwaves, optical properties, Maxwell's equations, traveling-wave
visual pigments, 'color Mondrian' experiment	tube, klystron, magnetron, waveguides, radar 1952 Aug p 43-51
1977 Dec p 108–128 [1392]	radio, frequency modulation, Armstrong, life and work of Edwin H
light-pipe experiment 1961 Dec p 78	Armstrong 1954 Apr p 64–69
three pigments identified 1963 Dec p 68 blue at 450 green at 533, red at 590 millimicrons 1964 Nov p 56	human evolution, speech, language, origin of speech
1072 1/ 50	1960 Sept p 88–96 [603]
1076 E-k = 57	honeybee, insect behavior, bee dances, honeybee sound communication
with rod cells Columbia Valley Authority, on TVA model 1976 Feb p 37 1949 Mar p 26	1964 Apr p 116–124 [181]
oma cluster, optical and radio red shift 1956 Oct p 66	cities, urbanization, Industrial Revolution, agricultural revolution,
combat fatigue, ACTH, war, stress, psychiatry, Korean war studies of	origin and evolution of cities 1965 Sept p 54-63
battlestress 1956 Mar p 31–35	artificial satellite, telecommunication, data transmission, pulse-code
combinatorial analysis, mathematics, probability, normal curve, Brownian	modulation, digital transmission 1966 Sept p 144–156
motion, Markov chain, Pascal's triangle, statistics, probability theory	bilingualism, language, reading, information processing, learning
1964 Sept p 92–108	1968 Mar p 78–86
scheduling, algorithms, critical path scheduling, bin-packing,	terntonal behavior, pheromones, rabbits, scent glands, pecking order,
mathematization of efficiency 1978 Mar p 124-132 [3001]	territorial marking by rabbit 1968 May p 116–126 [1108]
combustibility, air pollution, catalysis, fly ash, dust storms, metallurgy,	bird song, songbirds, syrinx, mechanism of sound production
fine particles 1950 Dec p 50–53	1969 Nov p 126–139 [1162] African drum language, drums, gong language, talking drums
combustion chamber design, automobile engines, high compression,	1971 Dec p 90–94
'knock', high-octane fuel, mechanical vs chemical solutions for premature combustion 1950 Feb p 16-19	communication technology, cybernetics, information theory, language,
combustion instability, rocket engine, resonant combustion, propellant,	machine communication, introduction to single-topic issue on
acoustic oscillation 1968 Dec p 94–103	communication 1972 Sept p 30-41 [677]
Comecon, computer technology, USSR, software, integrated circuits	cell communication, genetic code, nerve impulse, hormonal action,
1970 Oct p 102–108	metabolic information 1972 Sept p 42-51 [1257]
comensalism, ants, insect behavior, animal communication, ant 'guests',	verbal communication, acoustic formants, phonetics,
parasitism, pheromones 1971 Mar p 86–93 [1213]	markedness/unmarkedness dyad, morphemes, syntax, context
comet, orbital motion, comet tails, spectroscopy, composition and origin	sensitivity, invariant/variable dyad 1972 Sept p 72-80
of comets 1951 July p 22–26	information theory, painting, sculpture, architecture, visual
solar radiation, Halley's comet, physics of comet tails	communication, trademarks, language, visual stimulus, visual signals
1958 Oct p 44–50	1972 Sept p 82–96 [548] communication networks, communication satellite, electronic
geomagnetism, magnetic reversals, tektites, meteorites, meteoritic impacts 1967 July p 32-38	switching, multiplexing, network theory, radio, telephone systems,
galactic formation, nebular hypothesis, solar system evolution, stellar	television systems 1972 Sept p 116–128
evolution 1975 Sept p 32-41	communication terminals, computer technology, communication
backward tail explained 1957 Sept p 58	technology, microwave relays, transmitters, receivers
comet belt, Pluto, Neptune's orbit 1964 Aug. p 43	1972 Sept p 130–140
comet origins, cometary structure, exotic molecules, solar system,	communication technology, network hierarchies, two-way channels,
primordial dust cloud. Comet Kohoutek 1974 Feb. p. 48–57	computer-assisted instruction, information retrieval, National
comet tails, comet, orbital motion, spectroscopy, composition and origin	Academy of Engineering study, 'Communications Technology for
of comets 1951 July p 22–26	Urban Improvement', 'wired city' concept 1972 Sept p 142–150 mass communication media, message systems, television violence.
cometan, structure, comet origins, exotic molecules, solar system primordial dust cloud, Comet Kohoutek 1974 Feb p 48-57	cultural patterns, sociology, mass communications as social
primordial dust cloud, Comet Kohoutek 1974 Feb p 48–57 commeree, Classical archeology, underwater archeology, Roman empire,	environment 1972 Sept p 152–160 [679]
amphora 1954 Nov p 98–104	freedom of expression, civil rights, U S First Amendment
market, agricultural system, peasants, peasant markets in Haiti	1972 Sept p 163-172 [680]
1960 Aug p 112-122 [647]	crying infant behavior, neonatal disorder, mother-child interaction,
money, bride price, cultural anthropology, red-feather money,	sound spectrogram 1974 Mar p 84-90 [558]
Southwest Pacific-Solomon Islands culture 1962 Mar p 94-104	gypsy moth, biological pest control, pheromones, olfactory receptors,
Assyrian civilization, Anatolia, 2000 B C, trade patterns	sex attractants, silk moth, chemotaxis 1974 July p 28–35 [1299]
1963 Feb p 96–106 Vikings, nomads, Scandinavia, Vinland, Siegfned legend, seafaring,	computer language, man machine interface, talking computers
Svea, appraisal of 400-year Viking ascendance 1967 May p 66–78	1975 Mar p 36-42 eye, nonverbal communication, pupil size, effect of pupil size on
invention, technology, patent-law reform 1967 June p 19–27	attitude 1975 Nov p 110-119 [567]
commercial aircraft, aeronautics, supersonic flight, aircraft design, sonic	child development, language, social speech 1977 Feb p 100-105 [576]
boom, aviation industry, technology and economics of supersonic	radio, bouncing microwaves 1955 Sept. p. 60
transport 1964 June p 25-35	radio millimeter-wave region proposed 1970 Dec. p. 42
Committee for Economic Development, see C E.D commodity prices, underdeveloped countries 1974 July p 46	communication channels, carrier-wave modulation, coaxial cable,
common cold, virus disease, human subjects chilling test, Salisbury.	communication technology, electromagnetic spectrum fiber optics radiowave bandwidth, noise 1972 Sept. p. 98-113
England study 1951 Feb p. 39-45	radiowave bandwidth, noise 1972 Sept p 98–113 communication networks, communication satellite, electronic switching,
virus disease, tissue culture, 20 strains cultured 1960 Dec p 88-102	multiplexing, network theory, radio, communication telephone
virus in tissue culture 1953 Nov p 52	Systems television systems 1072 Sept = 116 120
Johns Hopkins virus vaccine 1957 Nov p 72	communication satellite, artificial satellite, telecommunication, orbital
virus cultured in monkey embryo kidney tissue 1960 Apr p 86	motion, Echo II satellite, radio, satellite communication systems
Total record by shellows	consideration of alternatives 1961 Oct = 00 107
communication, information theory thermodynamics entropy	communication networks, electronic switching multiplexing new cel
1949 July p 11–15	theory, radio, communication telephone systems television systems 1972 Sept p 116–128

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cognitive dissonance, human behavior, social psychology, experiments in	collistics to the second second
prepared 1000 Oct n 03 103 1473	colliding beam accelerator, cyclotron, synchrotron, high energy physics,
concrete radiation, radar, microwayes, spectroscopy, molecular honde	5 There are the design and purposes of the accelerators
resonance absorption, energy levels, quantum minus quantum	lugh appropriate 1958 Mar p 64-76 [251]
electrodynamics, time-keeping, foundation of maser, laser	high-energy physics, storage rings, synchrotron, particle accelerator,
lectinology 1948 Sept. p. 16, 23	spark chamber 1966 Nov p 107-116 [323]
maser, incrowave amplification, stinulated enussion, quantum	the Control of the Co
medianics, principles and uses of maser 1958 Dec. 5. 42 Society	positron annihilation, proton, parton model, quantum electrodynamics 1973 Oct. p. 104-113
laser, maser, stimulated enussion, first lasers as optical masers'	ligh-energy physics, particle interaction, proton-proton interaction,
1961 June p. 52-61 (274)	C E.R N 1973 Nov p 36-44
molecular beam, electron theory, resonance absorption, atomic	particle accelerator, new orders of collision energy 1978 Mar p 70
radiation, gas molecules, nuclear magnetic resonance, Stern-Gerlach	Colliding galaxies, galactic clusters, radio astronomy, non-efful signals
cxperiment 1965 May n. 58-74	may extend reach of astronomy 1956 Sept p 125-134
interference, prinouin scattering, energy levels, laser light	colonial building white nine North American forests Royal Navy Kine's
Calcarles Amanda IV. 1968 Sept p 120-136	Broad Arrow, American Revolution 1948 June p 48-53
Colionlina, Amerindian, Havasupai, Paleolithic culture, prehistoric man in	colonialism, pidgin, linguistics, Crcole, gullah, grammar, evolution and
the Grand Canyon 1958 Feb p. 97-102	claboration of colonial languages 1959 Feb p 124-134
coins, archeology, statistics, numismatics, Taxila hoard, India	colonization, human population, human nugration, immigration policy,
counterfeiting, numismatics, Roman Britain 1966 Feb p 102–111	slave trade 1974 Sept p 92-105
counterfeiting, numismatics, Roman Britain 1974 Dec p 120–130 coking, coal, chemical raw material, fossil fuel, 'water gas' process	color, stellar evolution, short-lived stars, main sequence
	1953 Mar p 34-37
hydrogenation 1955 July p 58-67 colchicine, chromosome doubling, plant genetics, hybrid cells,	spectroscopy, materials technology, photoelectric effect, laser,
'cataclysmic evolution' 1951 Apr p 54-59	transparency, optical properties of materials 1967 Sept p 238-248
arthritis, gout, metabolism, chemistry of gout 1958 June p 73-81	photoelectric effect, reflection, refraction, light, resonance absorption,
cold adaptation, Arcue flora, desert adaptation, palcobotany, Greenland	photon, electron, interaction of light with matter 1968 Sept p 60-71
flora, adaptations to Arctic climate 1956 Feb p 88-98	antimatter, electron-positron annihilation, I particle, psi particle,
caribou, rodent, moose, polar ecology, animal adaptation to Arctic	charm, quark, high-energy physics, storage rings, virtual particles
1960 Jan p 60-68	1975 June p 50-62
adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,	color and illumination, color vision, reflection, 'retinex' theory, visual
metabolism, neonatal physiology, heat production in newborn	perception, visual pigments, 'color Mondrian' experiment
animals, including man 1965 Aug p 62-65 [1018]	1977 Dec p 108-128 [1392]
circulatory system, thermoregulation, fur, metabolism, insulation	eolor blindness, sex linked traits, dichromatism, physiology and
1966 Jan p 94-101 [1032]	psychology of a vision defect 1951 Mar p 48-53
'cold-blooded' animals, behavioral adaptation, pigmentation,	cone cells, fovea, genetic disease, retinal image-processing, visual pigments 1975 Mar p 64-74 [1317]
thermoregulation, lizard, reptile, behavioral thermoregulation	pigments 1973 Mar p 04-14 (1917) color centers, photolysis, photochemistry, chemical reaction, reaction
1959 Apr p 105-120 ectothermy, metabolism, heterothermy, insect flight, sphinx moths,	kinetics, free radicals, spectroscopy, high speed chemistry
temperature regulation, Mandura sexta warm-up mechanisms	1960 May p 134-143
1972 June p 70-77 [1252]	color discriminination, in cats 1964 June p 59
cold cathode, electron beam, current density, X-ray photography, field	color fusion, color scission, perceptual transparency, physical
emission 1964 Jan p 108-118	transparency optical illusion transparency, visual perception
'cold light', bioluminescence, glow worm, firefly, abyssal fish, luciferase	1974 Apr p 90-98 [559]
1948 May p 46–49	color holography, holography, laser, nucroscopy, white-light reconstruction 1968 Feb p 40-48
cold war, economic development, military expenditures, politics of aid, 'rich' nations, 'poor' nations 1972 Apr p 15-21	reconstruction 1968 Fee p 40-16 color perception, insect eye, compound eye, optical resolution, insect
'rich' nations, 'poor' nations 1972 Apr p 15-21 colicine, ATP, cell membrane, membrane energetics, active transport, E	behavior 1948 July p 42-45
coli 1975 Dec p 30-37 [1332]	asson, form percention, role of experience in visual perception
colicine-K, action defined 1959 June p 81	1949 Aug p 32-33
collagen, proteins, beta chain, alpha helix, polypeptide synthesis,	eye, vision, retinal pigments, cone cells trichromaticity implies three
polymers, amino acids, synthesis and architecture of proteins	cone pigments 1962 Nov p 120-132 [139]
1957 Sept p 173-184 [7]	surface colors, chromatic saturation, hue 1975 Aug p 62-75 [565] frog's blue preference 1963 Jan p 62
elastin, keratin, myosin, fibrin, cell, polymers, polymers in living cells	100 to 1 to 100
1957 Sept p 204-216 [35] proline, hydroxyproline, collagen fibril, tropocollagen, connective	cone cells of three kinds 1964 May p of color photography, science history, Maxwell's color photograph, first
tissue, nature and properties of most abundant protein	three-color photograph 1961 Nov p 116-120
1961 May p 120-130	emission nebulge interstellar cas indigation, nebular luminosity
1963 Apr p 104-114 [155]	1974 Oct p 34-43
hone, niezoelectricity, osteogenesis, calcium metabolism, bone	from silver-halide emulsions 1951 Jan p 30
- do-tation to mechanical stress 1900 UCL D 10-20 110211	color scission, color fusion, perceptual transparency physical transparency, optical illusion, transparency, visual perception
wound healing, regeneration, leukocyte, fibroblasts, epidermal cells 1969 June p 40-50 [1144]	1974 Apr p 90-98 [559]
	color television, picture elements, line structure, field-scanning rate
elastin, fibroblasts, nucrofibrils 1971 June p 44–52 [1225] blood plasma, cell-surface antigens, glycoproteins, interferon, protein	technology assessment, competing color television systems weighed
blood plasma, cell-surface antigens, gryeopiet 1974 May p 78-86 [1295]	1950 Dec p 13-1/
molecule 1974 May p 70-60 [1293] 1974 May p 10-60 [1293] 1974 May p 10-60 [1293] 1974 May p 10-60 [1293]	compatability with black and white 1950 Oct p 25
	httgation continues designed by E O Lawrence 1951 Nov p 33
connective tissue, nature and properties of most as a	1903 Dec D 34
1701 May 9 120-120	pack to the incoming conditioned behavior, behavioral psychology
	Skinner hox, visual discrimination, pigeons conditioned to respond
collective-effect accelerators, electron-ring accelerator, particle	1928 Jan D 77-82 (403)
accelerator, particle-storage rings	visual perception 'long' and 'short' wavelengths in color perception 1959 May p 84-99 [223]
beneficiation 1956 Dec p 99–110	1962 May p 62-72 (465)
beneficiation cottege graduates, intellectual resources of U.S. doctorates, test scores 1951 Sept. p. 42-46	T conclancy ellect, licular colors
1931 аерг р 42-40	1963 Jan p 107-116 [474]

ompound eye, insect eye, color perception, optical resolution, insect behavior 1948 July p 42-45	artificial intelligence chess-playing computer 1958 June p 96-105 artificial intelligence, minutes of man-machine chess game
eye, insect eye, ommatidia 1977 July p 108-120 [1364]	1973 June p 92–105
Compton effect Cerenkov radiation 1951 Oct p 54-33	championship 1974 Nov p 51
ionizing radiation, photoelectric effect, chemical effects, cytology, free	Cheops readied for play 1976 July p 66
radicals, lethal effects of radiation 1951 Dec p 22-25	Chess 45 vs Levy 1977 June p 56
quantum mechanics, Planck, science history, spectroscopy, black body,	computer-controlled fabrication, electron optics, microcircuit fabrication,
resonators, Einstein, photoelectric effect, quantum jumps	silicon 'chips', computer technology, integrated circuits
1952 Mar p 47–54 [205]	1972 Nov p 34-44
	computer decision making. accounting systems design, computer
computability theory, Chinese remainder theory, Diophantine equations,	technology, bookkeeping, uses of computers in organizations
Hilbert program, mathematics 1973 Nov p 84-91	1966 Sept p 192–202
computer, integrated circuits, memory circuits, 'Simple Simon' a minimal	computer design, automata theory, Turing machine, von Neumann
computer 1950 Nov p 40-43	
Babbage, difference engine, analytical engine, digital computer, life and	machine, brain circuitry 1955 Apr p 58-67 computer theory, integration of processor and memory, parallel
work of Charles Babbage 1952 Apr p 66–72	computer theory, integration of processor and memory, paramer
automatic control, solid-state electronics, analog-to-digital conversion,	processing, sequential processing, microelectronics
digital computer, analogue computer, the universal machine	1977 Sept p 210-228 [383]
1952 Sept p 116–130	computer displays, cathode-ray tube, computer technology, information
mathematics, number theory, computer finds five perfect numbers	theory, light pen, computer graphics, rand tablet, computer graphics
1953 Mar p 84–86	and man machine interface 1966 Sept p 86–96
communication technology, magnetic tape, magneto-optical recording,	computer enhancement, Mars, space exploration, telemetry, television
recording, playback 1969 Nov p 70-82	camera, computer graphics, Mariner IV photographs, Martian
calculating machine, pocket calculator, integrated circuits, memory	topography 1966 Apr p 54-68
1976 Mar p 88–98	visual perception, information theory, computer graphics, 'block
speed limits 1968 Mar p 50	portraits', pattern recognition, recognition of faces
computer algorithms, computer-assisted imaging, image reconstruction,	1973 Nov p 70-82
computer arguminis, computer-assisted magning, mage reconstitutions, computer graphics, medical care, tomography, CAT scan	Caruso recording 1975 July p 48
1975 Oct p 56–68	computer failure, flip-flop indecision 1973 Apr p 43
computer analysis, chromosomal anomalies, pattern recognition,	computer graphics, pattern recognition, visual perception, stereoscopic
computer graphics, computer recognition and classification of	images, texture discrimination, depth perception
	1965 Feb p 38–48 [318]
chromosomes 1966 Apr p 40–46 [1040]	computer applications, fluid dynamics, computer modeling, scaling
stone tools, tool assemblages, multivariate analysis, factor analysis,	wind tunnel, vortex 1965 Mar p 104-110
Paleolithic archeology, Bordes method, stone tools as fossils of	chromosomal anomalies, pattern recognition, computer analysis,
behavior 1969 Apr p 70–84 [643]	computer recognition and classification of chromosomes
evolution, proteins, species specificity, cytochrome, amino-acid	1966 Apr p 40-46 [1040]
substitution, phylogeny from amino-acid substitution	Mars, space exploration, computer enhancement, telemetry, television
1969 July p 86–95 [1148]	camera, Mariner IV photographs, Martian topography
automatic cell sorting, blood cell analysis, lymphocytes, pattern	1966 Apr p 54–68
recognition, automatic analysis of white cells 1970 Nov p 72-82	cathode ray tube, computer technology, computer displays,
Epistles of St Paul 1964 Jan p 56	information theory, light pen, rand tablet, computer graphics and
the meaning of Samuel Becket's 'lessness' 1973 Aug. p 47	man-machine interface 1966 Sept p 86–96
computer applications, business computers, computer goes to market	camera, lens design, telescope, interferometry, image formation, light
1954 Jan p 21–25	
fluid dynamics, computer modeling, scaling, wind tunnel, vortex,	1968 Sept p 96-108 automatic control, computerized design, computer technology, control
computer graphics 1965 Mar p 104–110	
reapportionment, redistricting, elections, representative government,	systems, uses of computer in technology 1966 Sept p 176–188 aerodynamics, airfoil, boomerang, actual and theoretical boomerang
gerrymander 1965 Nov p 20–27	orbits 1968 Nov p 124-136
computer technology, information theory, binary arithmetic, computer	orbits 1968 Nov p 124-136 molecular structure, electron shells, computer modeling, quantum
industry, computer privacy, introduction to single-topic issue on	
information processing 1966 Sept p 64-73 syntactic analysis, analog-to-digital conversion, computer modeling.	chemistry, molecular orbits 1970 Apr p 54-70 laser, integrated circuits, computer technology, computer modeling,
Computer technology computer as a set of the desired and a factor of	
computer technology, computer as instrument and as 'actor' in science 1966 Sept p 160-172	programs logic of displays 1970 June p 56-81 visual perception, information theory, 'block portraits', computer
botany, taxonomy, set theory, zoology, numerical taxonomy, computer	enhancement, pattern recognition, recognition of faces
classification of living things 1966 Dec p 106–116 [1059] electronic typesetting printing, photographic typesetting, digital	architectural drawing, computer modeling 1973 Nov p 70–82
computer, mechanical composition, cathode-ray tube	architectural drawing, computer modeling 1974 May p 98–106 computer algorithms computer-assisted imaging, image
1969 May p 60-69	reconstruction, medical care, tomography, CAT scan
automatic control, machine tool, parts manufacture, batch process	1975 Oct p 56-68
production methods 1975 Feb p 22–29	computer history, mathematics, arithmetic, computer's contribution to
robot, assembly, labor-saving devices manufacturing productivity,	mathematics 1964 Sept p 202–216
programmable robot for product assembly 1978 Fcb p 62-74 [929]	Bacon's cipher, binary code, Boolean algebra, science history, Jacquard
on production line 1953 May p 55	
computer-assisted imaging, computer algorithms, image reconstruction,	computer industry, computer technology, information theory, binary
computer graphics medical care, tomography, CAT scan	anthmetic, computer privacy, computer applications introduction to
1975 Oct p. 56-68	single-topic issue on information processing 1966 Sept p 64-73
ultrasonics medical diagnosis, optics echo-sounding, sonar, imaging	single-topic issue on information processing 1966 Sept p 64-73 computer language, computer programming, systems analysis computer
internal organs by ultrasound 1978 Man p og 112 (1389)	technology, how to write a computer program 1966 Sept p 112-124
computer-assisted instruction, communication technology network	communication man machine interface, talking computers
hierarchies communication, two-way channels information	1075 Non- 1076 N
reineval National Academy of Engineering study (Communications	1975 Mar p 36-42 algorithms computer programming, hash table, binary search trees
Technology for Urban Improvement', 'wired city' concept	1977 Apr p 63-80
1977 Sent p. 142-150	in natural languages 1076 Oct = 60
computer assisted tomography, see CAT scan	computer memory, computer technology digital computer applicate
computer champions, MANIAC and ENIAC 1952 Aug. p. 36	computer, relay computers binary arithmetic logic automatic
computer chess, artificial intelligence automata theory, 'thinking'	control control systems, status of 'mathematical machines'
approaches an operational definition 1950 Feb p 48-51	
	1949 Apr p 28-39

artificial satellite, COMSAT, Intelsat, Communications Satellite Act (1962)	auxins, serotonin, LSD, neurophysiology, physiological function of
1977 Feb p S8-73 [353	7) Sciolonin 1957 Dec. p. 52-56
Taleton danage 1	FCPUIC, marine birds, adaptation, salt avarating plants
comparative performance of satellite systems 1963 Sept. p. 8.	1959 Jan n 109-116
educational television 1966 Sept. p. 10	1 to an a to to
COMBA i pians 1971 Sept p. 76	laboratory animals, pig. small pig as experimental animal, resemblance
on the 1976 Apr. n. 5.	to man 1966 June p 94-100 [1045]
communication technology, electronics, electron tubes, amplifiers,	heat exchange, mackerel shark, rete mirabile, thermoregulation, tuna,
rectifiers electron opties, enthode-ray tube, communication, power, thermionic emission, state of the technology 1950 Oct p 30-39	warm-bodied fishes 1973 Feb n 36-44 [1266]
radio, tonosphere, nucrowave transmission, troposphere, tonosphere	Freedrich ordanie, Braile technique
and tropospheric scattering 1957 Ian n 46_51	1974 Nov p 96-105 [1307]
interplanetary navigation, spacecraft, orbital motion, rocket.	comparative psychology, insect behavior, social insect army ant, ants, reproduction, feedback, pheromones, trophallaxis, natural history,
navigation, technology of space navigation 1960 Mar p. 64-73	plulosophy of science, anthropomorphism 1948 June p 16-23
laser, signal transmission, multiplexing signal transmission by laser	learning, thinking, thesus monkeys 'learning to think'
1966 Jan p 19-27 [302] pulse-code modulation, digital transmission, binary arithmetic,	1949 Aug p 36-39 [415]
television, transmission quality, telephone, AM, FM	fcar, emotional development, learning, influence of early environment,
1968 Mar p 102–108	experiments with dogs 1956 Jan p 38-42 [469] animal behavior, prairie dogs, social behavior, territorial behavior,
laser, pulse-code modulation, electron optics, Kerr effect, Pockel's	innate behavior, learning behavior, field observation of praine dog
effect, polarization, modulators, modulation of laser light	communities 1959 Oct p 128–140
1968 June p 17-23	desert adaptation, kidney function, salt-water balance,
magnetic tape, computer, magneto-optical recording, recording, playback 1969 Nov p 70-82	thermoregulation, man camel comparison
carrier-wave generator, crystal structure, diode laser, laser.	1959 Dec p 140-151 [1096] *Visual cliff, depth perception, infant, visual perception, genesis of
heterostructure lasers, light-emitting semiconductor, solid-state	depth perception 1960 Apr p 64-71
electronics 1971 July p 32-40	baboons, human evolution, social behavior, social anthropology, Kung
cable television, television, wired-city concept 1971 Oct p 22-29	bushmen, sexual behavior, origin of society
eyberneties, information theory, language, machine communication,	1960 Sept p 76-87 [602]
communication, introduction to single-topic issue on communication 1972 Sept p 30-41 [677]	ethology, social behavior, gulls, animal behavior, evolution, reconstructing gull family tree from behavior of species
carrier-wave modulation, coaxial cable, electromagnetic spectrum, fiber	1960 Dec p 118–130 [456]
optics, radiowave, communication channels, bandwidth, noise	baboons, social behavior, sexual behavior, baboon troops in their
1972 Sept p 98-113	natural environment 1961 June p 62–71 [614]
communication terminals, computer technology, communication,	cichlid fish, manne iguana, rattlesnake, fighting behavior, animal behavior, oryx 1961 Dec p 112-122 [470]
microwave relays, transmitters, receivers 1972 Sept p 130-140 network hierarchies, communication, two-way channels, computer-	behavior, oryx 1961 Dec p 112-122 [4/0] group behavior, crowding, rats, population density, social pathology of
assisted instruction, information retrieval, National Academy of	erowding 1962 Feb p 139–148 [200]
Engineering study, 'Communications Technology for Urban	primate behavior, chimpanzee, social behavior, tool-using, observation
Improvement', 'wired city' concept 1972 Sept p 142-150	of chimpanzees in the wild 1962 May p 128–138 [463]
sound waves, crystal surface waves, electronic equipment Rayleigh waves, signal processing, ultrasonic waves 1972 Oct p 50-68	social deprivation, rhesus monkeys, maternal deprivation, peer group, experiments in social deprivation 1962 Nov p 136-146 [473]
waves, signal processing, ultrasonic waves 1972 Oct p 50-68 laser, fiber optics, light pipe, light-emitting diode 1973 Nov p 28-35	parental care, emotional development, abnormal behavior, maternal
digital transmission, microelectronics, telecommunication	dengyation, early experience and emotional development.
1977 Sept p 192-209 [382]	experiments with rats 1963 June p 138-146 [478]
communication terminals, computer technology, communication	cardiac function, hagfish, cyclosomes, knot-tying fish, hermaphrodite 1966 Feb p 82-90 [1035]
technology, communication, microwave relays, transmitters, receivers 1972 Sept p 130-140	teaching elephants 1956 June p 66
community action, education, poverty, group behavior, rural poverty	comparative religion, ethnic groups, gene isolation, Israel, Judaism,
emotional illness, social psychology, study of community	Samaritans, Holon and Nablus communities
regeneration 1965 May p 21-27 (634)	1977 Jan p 100–108 [690] competition, cooperation, social psychology 1950 Apr p 54–56
group behavior, poverty, culture of poverty, subculture of Western market societies 1966 Oct p 19-25 [631]	complement-fixation test, virology, neutralization test, hemagglutination
community hospital medical care, medical center, general practitioner,	test 1955 Mar p 60-70
medical specialist, laboratory services. Bingham plan, organization	complex numbers, quaternions, non-commutative algebra, mathematics,
of medical technology	high-energy physics, Hamilton, life and work of William Rowan Hamilton 1954 May p 82-87
beds/1000 population 1948 Aug p 22 community mental-health centers, mental health, emotional illness, community mental-health centers, mental health ce	mathematics, number theory, negative numbers, irrational numbers,
psychiatric hospital population, psychoactive drugs, psychotherapy,	matrix 1964 Sept p 50-39
17/2 3001 P 110-12/	complexity theory, networks, switchboards, mathematics from networks and switching systems 1978 June p 114-124 [3013]
emotional illness skid row, drug addiction, psychoactive drugs,	composite materials, glass fiber, materials technology, synthetic fiber,
'deinstitutionalization' of the emotionally ill 1978 Feb p 46-53 [581]	plastics properties of 'two-phase' materials 1962 Jan p 124-134
montal health movement, Gheel, Belgium, model	crystal structure, metals whiskers, fiber-reinforced, dislocations,
1975 Jan p 49	glass metals materials technology, ceramics, polymers, chemical band,
commutation, railway, traffic patterns, cities, mass transit, automobile,	atom, elements, introduction to single-topic issue on materials
transportation, Bay Area Rapid Transit 1965 Sept. p. 162-174	1967 Sept p 68-79
transportation comparative anatomy, badger, dog horse, cheetah, locomotion, deer, 1960 May p 148-157	materials technology, whiskers fiber glass, two-phase materials, fiber- reinforced composites, matrix eulectics 1967 Sept p 160-176
comparative anatomy, badger, dog noise, the 1960 May p 148-157 running, how animals run	cermets dispersion-strengthened composites, liber-reinforced
	composites, particulates 1973 July p 36-44 automobile propulsion, electric power generation, energy storage.
reconstructing genealogy of the 1958 Oct p 63-74	19/3 Dec. n 17-23
comparative physiology, erythrocyte, hematology, structure of red blood 1957 Jan p 95-102	composite numbers, number ineory, magic squares offiary arithmetic
cell 1937 Jan p 35-102	prime number 1951 July p 52-55

ARPANET, computer inter-communication 1972 June p 52	eye, vision, retinal pigments, color perception, trichromaticity implies
computer theory, games theory, logic, algorithms, problem solving,	three cone pigments 1962 Nov p 120–132 [139]
Turng machine 1965 Nov p 98–106	color vision, retina, pigments, ganglion cells, spectrophotometry, three- color receptor system 1964 Dec p 48-56 [197]
computer design, integration of processor and memory, parallel	rod cells, visual cells, autoradiography, protein synthesis, renewal
processing, sequential processing, microelectronics 1977 Sept p 210-228 [383]	mechanisms in retinal cells 1970 Oct p 80–91
computer time sharing, queues, traffic, mathematics, operations research,	retina, receptor cells, rod cells, retinal sensitivity, retinal information
applications of queuing theory 1968 Aug p 96–103	processing maintains high contrast image over broad range of
computer translation, linguistics, information theory 1956 Jan p 29–33	illumination 1973 Jan p 70-79
language, computer study of structure of language 1962 June p 68-76	color blindness, fovea, genetic disease, retinal image-processing visual
Chinese language, pattern recognition, experiment in machine translation 1963 June p 124–135	pigments 1975 Mar p 64-74 [1317] eone of avoidance, aurora, magnetic storms, sunspots, solar wind, solar
translation 1963 June p 124-135 Chinese language, Chinese writing, tones, Mandarin Chinese, Chinese	rotation, corpuscular streams, cycles in 'solar wind'
dialects 1973 Feb p 50-60	1955 Feb p 40-45
computerized design, automatic control, computer technology, control	conference, group behavior, interpersonal relationships, social
systems computer graphics, uses of computer in technology	psychology 1955 Mar p 31–35
1966 Sept p 176–188	confirmation theory, hypothesis-testing, logic, inductive proof, philosophy of science, probability 1973 May p 75–83
COMSAT, artificial satellite, communication satellite, Intelsat, Communications Satellite Act (1962) 1977 Feb p 58–73 [353]	conflict, attention, learning, physiological psychology, novelty,
Communications Satellite Act (1962) 1977 Feb p 58-73 [353] concrete, Portland cement, hydration, X-ray diffraction, cement,	monotony, conflict and arousal, aid to learning
chemistry of concrete 1964 Apr p 80–92	1966 Aug p 82-87 [500]
concrete-polymer, gamma-radiation hardening process 1969 Apr p 50	conformational isomerism, hydrocarbons, chemical bond, organic
concrete shrinkage, cement expander 1964 Oct p 60	molecules, conformation and reactivity 1970 Jan p 58-70 [331] eonformity, perception, social pressure 1955 Nov p 31-35 [450]
condensation nuclei, weather control, cloud seeding, silver iodide, Project Cirrus, dry ice 1952 Jan p 17–21	adolescence, interpersonal relationships, social psychology, U S
meteorology, ocean foam, salt particles, cloud physics, rain, seasalt and	teenage attitudes 1958 June p 25–29
rain 1957 Oct p 42–47	group behavior, social psychology, human subjects, group pressure,
ice, snow, water, frost, supercooling, ice worms, how water freezes	experiments in susceptibility to group pressure 1961 Dec p 45-51
1959 Feb p 114–122	congenital anomalies, agammaglobulinemia, gene expression, alkaptonuma, Wilson's disease, chemistry of hereditary disease, one
crystal growth, snow crystals, natural and artificial condensation nuclei 1961 Jan p 120-131	gene-one enzyme hypothesis 1956 Dec p 126–136
upper atmosphere, cloud, mesopause, meteoritic dust, rocket-borne	cleft palate, fetal injury, embryonic development, teratogenesis, rubella,
collectors sample noctilucent clouds 1963 June p 30–39	teratology 1957 Oct p 109-116
condensation polymers, molecular science, polymers, addition polymers,	genetic disease, hemophilia, epidemiology, mutation, in Queen
introduction to single-topic issue on 'giant molecules' 1957 Sept p 80-89	Victoria's descendants 1965 Aug p 88-95 purpura, virus disease, vaccine, teratogenesis, pregnancy, congenital
molecular science, polymers, addition polymers, introduction to single-	rubella, rubella 1966 July p 30–37
topic issue on 'giant molecules' 1957 Nov p 80–89	ateliosis, midgets, pituitary insufficiency, dwarfism, genetic disease,
conditioned behavior, Payloy, behavioral psychology, biography and	consanguinity, growth hormone deficiency, panhypopituitarism,
appraisal of I P Paylov 1949 Sept p 44-47	General Tom Thumb 1967 July p 102–110
color vision, learning, behavioral psychology, Skinner box, visual	see also genetic disease, chromosomal anomalies congenital rubella, congenital anomalies, purpura, virus disease vaccine,
discrimination, pigeons conditioned to respond to discrete wavelengths of light 1958 Jan p 77–82 [403]	teratogenesis, pregnancy, rubella 1966 July p 30–37
electroencephalography, brain waves, learning sleep, correlation of	Congo, Pygmies, social anthropology, Bambuti, symbyotic relationship of
brain waves to behavior 1959 Aug p 89–96	jungle Pygmies and pastoral-village peoples
learning, visual perception, Fechner's law, psychophysics, Skinner box,	1963 Jan p 28-37 [615] Congressional investigation, content analysis, newspapers, military
behavioral psychology, pigeon perception 1961 July p 113-122 [458]	secrecy, 'Condon case', content analysis of newspaper coverage of
planarian, learning, maze running, 'protopsychology', evidence of	political attacks on E U Condon 1949 Feb p 16-21
learning in a primitive nervous system 1963 Feb p 54-62	conic sections, Fermat, Descartes, mathematics history, analytic
learning, kinesthetic memory, behavioral psychology, place-learning	geometry, Euler, mathematics 1949 Jan p 40-45 geometry, mathematics, topology, non-Euclidian geometry, history and
1963 Oct p 116-122 [479] learning, long-term memory, short-term memory, lobotomy, octopus,	current uses of geometry 1964 Sept p 60–69
touch, sensory perception, correlation of brain structure and	coniine, alkaloids, plant physiology, morphine, strychnine 'hemlock'.
function in octopus 1965 Mar p. 42–50 [1006]	physostigmine, casseine, quinine, cocaine, neinine LSD, human
brain metabolism, memory, protein synthesis, goldfish, learning 1967 June p 115–122 [1077]	toxins in plant physiology 1959 July p 113-121 [1087] conjugation, bacteria, sexual reproduction, recombinant DNA gene
electrochemistry of conditioned behavior 1957 Nov D 74	recombination, sexuality in bacteria 1956 July p 109–118 [50]
behavioral psychology, effect of reinforcement on learning	bacteria, bacteriophage, gene recombination, recombinant DNA.
105ዩ ቪምር ኮ ኃሽ	mechanisms of heredity and infection in bacteria
see also operant conditioning, behavioral psychology conditioned reflex, spinal reflexes reflex conditioning, "spinal" cats (i.e.	1961 June p 92-107 [89] Connecticut River, calefaction, fission reactor, thermal pollution,
with resected spinal cords) walk' 1050 Nov p 20–22	industrial cooling, nuclear power, fishenes, ecology, fish crisis
automata theory, learning, feedback	1970 May p. 42-52 (1177)
neurosis, operant conditioning, Payloy per chalege, characterismy	connective tissue, collagen proline, hydroxyproline, collagen fibril
stress, emotional behavior, neurosis conditioned reflex is shown to be a neurosis 1954 Jan p 48-57 [418]	tropocollagen, nature and properties of most abundant protein
Condon Care a Content and this light than the and the	connective tissue cell, cell anatomy, spermatozoon, ovum virus science
confirmation content analysis of new spaper coverage	history, extology, muscle cell-plant cell, introduction to single-topic
loyalty and security. Condon's multiple	issue on the living cell 1961 Sent n 50 Gi toot
conduction electrons, crystal energetics on and	consanguinity, atchosis midgets pituitary insufficiency, dwarfism genetic disease, congenital anomalies growth hormone deficiency
particle concept, Fermi surface metal	paint)popilulanam General Iom Thumb 1067 tota - 102 tto
cone cells eve rod cells return tos ontes	blood groups genetic drift, mutation, gene pool, evolution, accordance
cone cells, eye rod cells retina ins optogram rhodopsin, camera anniomy and physiology of the eye camera as metaphor	
1950 Aug p 32-41 [46]	cannatis sauva marijuana drug abuse, pharmacology,
130 And h 25 to 1 to 1	1969 Dec p 17-25 [524]

ferroelectric crystal memory, ferrite cores, mercury delay line, magnetic	feedback, von Neumann machine, automata	d
tape, magnetic drum	self-reproducing machine, 'artificial living	incory, Turing machine
crystal structure, magnetism, ferrites, materials technology, microwave	machine, artificial living	1956 Oct p 118–126
radiation, industrial applications of iron oxides	algorithms, Koenigsberg bridges, undecidable	anestions nolumental
binary arithmetic commuter to be 1960 June p 92-104	time problems, exponential-time problems,	efficiency of algorithms
binary arithmetic, computer technology, integrated circuits, switching		1978 Jan p 96-109 [395]
elements, logic circuits, microelectronics, hardware of computer	computer teclinology, digital computer, analogue	e computer, relay
oxide semiconductors, magnetic core, integrated circuits,	computers, binary arithmetic, logic, automa	tic control, computer
microelectronics, advent of integrated-circuit semiconductor	memory, control systems, status of 'mathem	atical machines'
		1949 Apr p 28-39
integrated circuits, metal-oxide semiconductors, microelectronics,	transistor, junction transistor, vacuum tube, el	
large-scale integrated circuits, logic circuits, transistor	'revolution in electronics'	1951 Aug p 13-17
1970 Feb p 22-31	Voder, speech recognition, sound spectrogram	1955 Feb p 92-98
magnetic-bubble memories, magnetic domains 1971 June p 78–90	Antikythera, planetary motion, Greek compute	er, ancient instruments,
charge-coupled devices, charge transfer, image sensing, semiconductor	science history, Classical archeology, 2,000 y	
memories 1974 Feb p 22–31	molecular replication, self-reproducing machin	1959 June p 60-67
photographic film 1955 Sept p 74		959 June p 105-114 [74]
cryotron circuitry 1956 June p. 64	pattern recognition, artificial intelligence	1960 Aug p 60-68
computer modeling, crystal structure, molecular motion, particle motion	cryogenic technology, superconductivity, super	
key to bulk properties of materials 1959 Oct p 113-126 [265]		1961 July p 124-136
Monte Carlo method, gas kinetics, mathematical model, chemistry by	computer programming error-correcting codes,	
computer 1964 July p 100–108	detection	1962 Feb p 96-108
computer applications, fluid dynamics, scaling, wind tunnel, vortex,	central nervous system, redundancy, reliability,	error suppression
computer graphics 1965 Mar p 104-110	196	4 Feb p 103-112 [298]
mathematical model, giant molecules, cytochrome helix, myoglobin,	information theory, binary arithmetic, computer	r industry, computer
hemoglobin, molecular modeling, DNA 1966 June p 42-52 [1043]	privacy, computer applications, introduction	to single-topic issue on
computer applications, syntactic analysis, analog-to-digital conversion,	information processing	1966 Sept p 64-73
computer technology, computer as instrument and as 'actor' in	binary anthmetic, integrated circuits, switching	elements, logic circuits
science 1966 Sept p 160–172	computer memory, microelectronics, hardwar	e of computer 1966 Sept p 74-85
cities, urban transport, personal-transit systems, systems analysis, mass	anthada assituha assissa da da lasa asfarmatia	
transit 1969 July p 19-27	cathode-ray tube, computer displays, informatio computer graphics, rand tablet, computer grap	il theory, light pen,
molecular structure, electron shells, quantum chemistry, molecular orbits, computer graphics 1970 Apr p 54-70	machine interface	1966 Sept p 86–96
computer graphics, laser, integrated circuits, computer technology,	computer programming, computer language, syst	tems analysis, how to
programs, logic of displays 1970 June p 56-81	write a computer program	1966 Sept p 112-124
continental drift, plate tectonics, scaling, subduction, sea-floor	time-sharing man-machine interface multipe ter	minals, multiple users
spreading, Earth crust, Triassic period, Pangaea, supercontinents,		1966 Sept p 128-140
breakup of Pangaea traced 1970 Oct p 30-41 [892]	computer applications, syntactic analysis analog-	to-digital conversion
architectural drawing, computer graphics 1974 May p 98-106	computer modeling computer as instrument at	id as 'actor' in science
chemical reaction, oscillating reagents, rotating chemical reactions,		1966 Sept p 160-172
non-linear reactions 1974 June p 82–95	automatic control, computerized design, control s	1966 Sept p 176–188
microelectronics, municomputers, personal computers, FLEX, LOGO, SMALLTALK 1977 Sept. p. 230-244 [384]	graphics, uses of computer in technology accounting, systems design, computer decision ma	iking bookkeeping
embryonic development, growth, grid-transformation, the shaping of	uses of computers in organizations	1966 Sept p 192-202
tissues in embryos 1978 June p 106–113 [1391]	education teaching machine programmed instruc	tion, individualized
paranoia 1973 Feb p 48	teaching 1966 S	ept p 206-220 [333]
computer music, music, information theory, redundancy, computer study	information storage, information retrieval, microre	ecording electronic
of structure of music 1959 Dec p 109-120	scanner, microfiche, library science	966 Sept p 224-242
Datatron compositions 1956 Sept p 120	artificial intelligence, heuristic programs, computer	r programming
computer privacy, computer technology, information theory, binary	binary arithmetic, maximum computer speed	966 Sept p 246-260 1968 Oct p 93-100
arithmetic, computer industry, computer applications, introduction	computer graphics, laser, integrated circuits, compi	ner modeling.
to single-topic issue on information processing 1966 Sept p 64-73	programs, logic of displays	1970 June p 56-81
code security, cryptography, data-bank confidentiality 1973 May p 15-23	USSR, software, Comecon, integrated circuits 1	970 Oct p 102-108
1070 Ian n 52	computer programming, parallel processing, sequen	itial processing
by cryptography National Bureau of Standards safeguards 1977 Feb p 50	ILLIAC IV fastest computer	1971 Feb p 76-87
computer programming, error-correcting codes, computer technology,	cluster seeking algorithms, pattern recognition reac	ling machines 1971 Apr p 56–71
and another for error detection 1902 Feb p 30-100	communication terminals, communication technology	19/1 Apr p 30-7.
	microwave relays, transmitters, receivers 19	72 Sept p 130-140
response, stability, dynamic programming, 'policy' concept 1964 Sept p 186–200	electron optics, microcircuit fabrication, computer-c	ontrolled
computer language, systems analysis, computer technology, how to	fabrication, silicon 'chips', integrated circuits 1	972 Nov p 34-44
1700 DODE D 112 121	automatic control, electric power generation, generat	or control power-
write a computer technology, heuristic programs	system control	974 Nov p 34-44
	automatic control, instructable machines, robot syste	ms 76 Feb p 76-86B
computer technology, parallel processing, sequential processing,	servomechanisms 19 microcomputers, microprocessors, microelectronics	70 Feb b 10-00D
	1977	Sept p 146-161
algorithms, computer language, hash table, binary search trees 1977 Apr p 63-80	distributed-processing networks, microelectronics	• •
1964 Aug. p 44	1977 Sept	p 162–177 [380]
poetry by computer poetry by computer analysis 1966 Oct p 46	tik-tak toe machine	1949 Oct p 29
Cooley-Tukey algorithm for Fourier analysis	machine for translation 'parity' check in programs	1949 Dec p 30 1950 July p 27
regulation, automata theory, mechanical, biological, social self-	for Naval ordnance	1955 Feb p 62
regulation, automata theory, mechanical, biological 1948 Nov p 14-19 regulation	hard agod printer	1956 June p 62
10Butation	software into hardware, SYMBOL system	1972 Mar p 42

control panel, automatic control, continuous processing, fluid dynamics,	copper, trace elements, iron, manganese, zinc, magnesium, iodine, human
petroleum refinery, automatic chemical plant 1952 Sept. p. 82–96	nutrition 1953 Jan. p. 22–25
control systems, computer technology, digital computer, analogue	metallurgy. New World archeology, New World archeology, Old
computer, relay computers, hinary arithmetic, logic, automatic	Copper culture, Peru, gold, lost-wax casting. metalwork, pre-
control, computer memory, status of 'mathematical machines'	Columbian, New World, 4,000 B.C. 1966 Apr. p. 72–81
1949 Apr. p. 28–39	metal artifacts, Turkey, metallurgy, Neolithic archeology, village-
automatic control, servomechanisms, actuators, frequency response,	farming communities, man's first use of metals: 7,500 B.C.
pneumatic servomechanisms, hydraulic servomechanisms, control	1970 Mar. p. 50–56
systems 1952 Sept. p. 56–64	copper biochemistry, ceruloplasmin, hemocyanin, oxygen transport.
enzymes, protein synthesis, hemoglohin, myoglobin, feedhack,	enzymes, copper deficiency, cytochrome oxidase, Wilson's disease,
cooperative enzymes, allosteric enzymes, control of hiochemical	tyrosinase 1968 May p. 102-114
reactions 1965 Apr. p. 36–45 [1008]	copper deficiency, ceruloplasmin, hemocyanin, oxygen transport,
automatic control, computerized design, computer technology,	enzymes, cytochrome oxidase, copper hiochemistry, Wilson's
computer graphics, uses of computer in technology	disease, tyrosinase 1968 May p. 102-114
1966 Sept. p. 176–188	'coppering', friction, Leonardo, Coulomb, technology history, sliding
chromatography, process control, automatic control, predictive control	surfaces, molecular cohesion 1951 Feb. p. 54-58
1969 June p. 112–120	coprid beetles, heetle, cattle, dung beetles 1974 Apr. p. 100–109
feedback, water clock, thermostat, windmills, automatic control, flyball	coprolites, diet, human feces, human nutrition, prehistoric man
governor, origins of feedback control 1970 Oct. p. 110–118	1975 Jan. p. 100–109 [687]
arms race, cruise missiles, SALT, strategic weapons, tactical weapons,	coral, algae, coral rings, fossil reefs, paleontology, climatic change, dating
navigation systems 1977 Feb. p. 20–29 [691]	hy coral rings 1966 Oct. p. 26–33 [871]
automatic test systems, automatic control, microelectronics, measuring	geochronometry, dating by coral growth rings 1963 May p. 78
instruments 1977 Sept. p. 180–190 [381]	coral reef wax, biological wax, copepod lipids, marine wax, metabolic
control theory, mathematics, cybernetics, computer programming,	fuel, food chain 1975 Mar. p. 76-86 [1318]
feedhack, frequency response, stability, dynamic programming.	coral reefs, climatic change, energy cycle, fossil reefs, marine ecosystems,
'policy' concept 1964 Sept. p. 186-200	reef evolution 1972 June p. 54–65 [901]
controlled eutectics, alloys, eutectics, crystal structure, metallurgy,	coral rings, algae, coral, fossil reefs, paleontology, climatic change, dating
whiskers, controlled-cooling magnets 1967 Feb. p. 86-92	hy coral rings 1966 Oct. p. 26–33 [871]
controlled mutation, hy synthetic gene 1957 Oct. p. 60	core memory, see: computer memory
conurhation, housing, urban planning, central city, suhurbs, cities,	Coriolis effect, ocean circulation, atmospheric circulation, relativity of
metropolitan area, evolution of the metropolis 1965 Sept. p. 64-74	motion 1952 May p. 72–78 [839]
convection cells, Earth mantle, convection currents, plate tectonics,	Atlantic Ocean, Gulf Stream, ocean circulation, salinity, oxygen level,
driving force of continental drift, large-scale circulation	ocean temperature, 'anatomy' of the Atlantic
1976 Nov. p. 72–89 [921]	1955 Jan. p. 30–35 [810]
convection currents, tectonic processes, mountain formation, Earth	atmosphere, wind, ocean circulation, climate 1969 Sept. p. 76–86 ocean circulation, wind effect, currents, lahoratory analogues
mantle, the 'blister hypothesis' 1949 June p. 16-21 Earth heat, Earth mantle, Earth core, heat flow, radioactivity	1970 Jan. p. 114–121 [390]
leso Dec. p. 54-57	hathtuh vortex 1962 Nov. p. 74
geomagnetism, gcophysics, electromagnetism, magnetohydrodynamics,	hathtub vortex clockwise in Southern hemisphere 1965 Nov. p. 54
Earth core, origin of terrestial magnetism 1958 May p. 44–48	corn, genetics, teosinte, tripsacum, pod corn, popcorn, hybrid cells, New
plants, thermoregulation, solar radiation, thermal radiation,	World archeology, plant genetic experiment and archeological finds
transpiration, energy transfer, heat transfer in plant leaves	point to pool corn as wild ancester of maise 1950 July p. 20-24 [26]
1965 Dec. p. 76-84 [1029]	hybrid corn. agronomy, technology and promise of hybrid corn
continental drift, plate tectonics, sea-floor spreading, ocean ridges,	1951 Aug. p. 39-47
Earth mantle, tensile-stress hypothesis 1969 Nov. p. 102-119	agricultural pest, corn horer, insect hehavior, species specificity,
convection cells, Earth mantle, plate tectonics, driving force of	adaptation of parasite to host 1958 May p. 87-94
continental drift, large-scale circulation 1976 Nov. p. 72-89 [921]	New World archeology, agricultural revolution, Mexican agriculture,
in Earth's mantle 1949 Dec. p. 30	urbanization. New World agricultural revolution
cooking, fire-making, human evolution, fire vegetation, Neolithic	1964 Nov. p. 29–37 [625]
revolution, kiln, furnace, heat, introduction to single-topic issue on	lysine, plant hreeding, plant protein, agronomy, human nutrition,
heat 1954 Sept. p. 52-57	malnutrition, high-lysine corn 1971 Aug. p. 34-42 [1229]
cooling system, air conditioning, air vent, wind tower, domed roof,	gene-pool bank 1951 Sept. p. 60 U.S. No. 13 dwarf corn 1958 Oct. p. 54
architecture, passive cooling systems in Iranian architecture	
1978 Feb. p. 144–154 [705] cooling towers, heat exchange, industrial cooling, energy technology,	crop yield, oriented planting 1959 May p. 76 lysine, opaque-2 lysine-rich com 1965 Aug. p. 44
microclimate 1971 May p. 70-78	
cooperation, competition, social psychology 1950 Apr. p. 54-56	reinstatement of teosinte 1973 Jan. p. 44 see also: maize
cooperative enzymes, enzymes, protein synthesis, hemoglobin,	com borer, agricultural pest, insect behavior, species specificity, com.
myoglobin, control systems, feedback, allosteric enzymes, control of	adaptation of parasite to host 1958 May p. 87-94
biochemical reactions 1965 Apr. p. 36–45 [1008]	corner reflector, Apollo project, laser reflection, moon, orbital motion.
coordination of movement, cye-head coordination, sensory feedback,	lunar-ranging experiment, Earth-Moon distance measurement
visual targeting 1974 Oct. p. 100-106 [1305]	1970 Mar. p. 38–49
copepod lipids, biological wax, coral reef wax, marine wax, metabolic fuel,	corona, chromosphere, eclipse phenomena, photosphere, solar corona,
food chain 1975 Mar. p. 76-86 [1318]	Sun 1973 Oct. p. 68–79
Copernican revolution, Bruno, science history, Galileo's heresy, martyrdom of Giordano Bruno re-examined 1973 Apr. p. 86-94	corona chemistry, catalysis, corona discharge, free radicals, ozonc.
English poetry, 'Space Rapture' 1973 Apr. p. 86-94 English poetry, 'Space Rapture' 1977 June p. 120-129 [367]	polymerization, water purification, hydrocarbon cracking
Copernicus, calendar, solar system, planetary motion, time, heliocentric	1965 June p. 90–98
theory, year, astronomy, astronomy, Copernicus, length of calendar	corona discharge, alternating current, electric power, high-voltage
Vear 1966 Oct p 25-95	transmission, power transmission, hydroelectric power generation, economic advantages of high-voltage transmission
planetary motion models, Tycho Brahe, solar system, science history	
Tycho's notes in de Revolutionibus 1973 Dec. p. 86–101	catalysis. free radicals, ozonc. polymerization. corona chemistry, water
as physician 1973 Oct. p. 48	purification, nydrocarbon cracking 1965 June 7, 00, 00
coping behavior, psychosomatic illness, rats, stress	air pollution, electrocoating, fly ash, electrostatics, photocopying
1972 June p. 104–113 [544]	xerography, electrostatic precipitation and seperation
	1972 Mar. p. 46-58
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consciousness alteration, alkaloids, hallucinogens, mental health, drug	Amaza dan mari Ari da
nddiction, LSD, psychosis, psilocybin, mescaline, effects of LSD	species dispersion, fossil record, evolution, plate tectories
1964 Apr. n. 29_27 1495	1972 Nov p 56-66 [903]
conservation, U N conference 1940 M m 2	The state of the s
Conscivation of vector current 1062 A 6	, the distribution parterns, plate tectories, ser floor
conservation law, Helmholtz resonators, matter conservation,	
ophthalmoscope, science history, Hermann von Helmholtz,	biosphere, marine biology, ocean evolution, Pangaea, plate tectonics
biography 1958 Mar. p 94-10	1974 Apr p 80–89 [912]
matter, energy, momentum, high-energy physics, conservation laws in	
particle physics 1963 Oct n 36-4	Wegener's hypothesis 1975 Feb p 88–97
particle physics 1963 Oct p 36-4: high-energy physics, baryons, mesons, 'strong' force,	
'cightfold way', Regge trajectory, resonance 'particles', 'bootstrap'	mountain formation, carthquake zones, Gobi Desert, Himalaya
hypothesis 1964 Feb n 74, 92 1296	formation, India-Eurasia collision, plate tectonics, sea-floor
1201 1 CD p 14-33 1230	spreading Tibetan plateau 1977 Apr p 30-41
conservation of strangeness, high-energy physics strange particles, pions,	palcomagnetic evidence of its intermittance 1967 Dec. p. 50
muon, sorting out the multiplicity of particles	fossil amphibian in Antarctica 1968 Apr p 43
1957 July p 72-88 [213]	,
constancy effect, visual perception, color vision, neutral colors	see also plate tectonics
1963 Jan p 107–116 [474]	continental evolution, Earth crust, volcanoes, island arcs, sedimentation,
constrained-layer damping, noise control, vibration, viscoelastic material	origin of the continents 1955 Sept p 62-66 [816]
1969 Jan p 98-106	
construction technology, radar domes, building construction, pneumatic	Apallachian foldbelt 1972 Mar p 30–38 [899]
buildings 1956 June p 131–138	continental shelf, ocean floor, submarine carryons 1949 Apr p 40-43
building codes, building construction, housing	continental terrace, onlap process, offlap process, geology
1971 Mar p 16-25 [341]	1955 Mar p 82-86 [808]
wind bracing, skyscrapers, Eissel Tower, cantilever, truss bridge, steel	ocean floor, submarine canyons, turbidity currents, submarine
frame construction, curtain wall 1974 Feb p 92-105	avalanches and topography of ocean floor 1956 Aug p 36-41
heat reflection, from a roof paint 1954 June p 46	bathymetry, sonar, gravimetry, ocean floor, sedimentary cores, Lamont
tapered columns stronger 1968 July p 55	Geophyscial Observatory 1956 Dec p 83-94
plastic roof 1969 May p 56	plant migration, oceanography, New World archeology, animal
consumer-product research, consumer protection, energy conservation,	mugration. Bering land bridge, glaciation, Wisconsin glaciation,
household appliances, product safety, product technology, N B S	animal-plant migration, Asia-North America 1962 Jan p 112-123
1977 Dec p 47-53	glaciation, ocean, shelf sediments, marine geology
consumer protection, consumer-product research, energy conservation,	1969 Sept p 106-122 [882]
household appliances, product safety, product technology, N B S	continental shelf exploitation, saturation diving, underwater shelters,
1977 Dec p 47-53	decompression, diving, oceanographic exploration
contact binaries, stellar evolution, tidal effects, gravitation effects, binary	1966 Mar p 24-33 [1036]
stars, stellar fission 1968 June p 34-40	continental terrace, continental shelf, onlap process, offlap process,
containerization, cargo handling, shipping, automatic control, loading, air	geology 1955 Mar p 82-86 [808]
transport 1968 Oct p 80–88	continental uplift, glaciation, a theory of glaciation 1952 Aug p 57-59
marine technology, drilling platforms, ocean, supertankers,	ocean floor, glaciation, sea level, sea level variations
submersibles, technology and the ocean 1969 Sept p 198-217 [887]	1960 May p 70-79
content analysis, newspapers, military secrecy, Congressional	continuous casting, steel production, metallurgical engineering economic advantages 1963 Dec p 74-88
investigation, 'Condon case', content analysis of newspaper coverage	advantages 1963 Dec p 14-60
of political attacks on E U Condon 1949 Feb p 16-21	continuous processing, automatic control, fluid dynamics, petroleum
dreams, 10,000 dreams 1951 May p 60-63	refinery, control panel, automatic chemical plant 1952 Sept p 82-96
television, allocation of time, a critical review by educators	1932 Schr b control technolic
1951 June p 15-17	contour perception, contrast perception Mach bands, neuronal response
context sensitivity, verbal communication, communication, acoustic	optical illusion, visual perception, Craik-O'Brien effect 1972 June p 90-101 [543]
formants, phonetics, markedness/unmarkedness dyad, morphemes,	optical illusion, visual perception 1976 Apr p 48-52 [570]
	contraception, birth control, reproduction ovulation, nidation,
continental drift, remanent magnetism, plate tectonics, ocean floor, island	fernization 1954 Apr p 31-34
arcs, Wegener hypothesis re-stated with new evidence, age of rocks 1963 Apr p 86-100 [868]	birth rate, birth control, family planning, family size, U.S. population
evolution, Infra-Cambrian Ice Age, glaciation, fossil record,	trends, acceptance of contraception 1959 Apr p 50-55
evolution, infra-Camorian ice age, glaciation, iossi 1964 Aug p 28-36	abortion, birth control, family planning, population control public
paleomagnetism 1904 Aug p 20-30 glaciation, Gondwanaland, Laurasia, paleomagnetism, Glossopteris,	policy in U.S. 1973 July p. 17–23
do as spreading supercontinents plate tectonics, continental	research objective 1953 Aug p 48
drift confirmed 1968 Apr p 52-64 [874]	'morning after pill' 1966 June p 56
di la company magnetic reversals cristal movement.	Roman Catholics 1968 Dec p 50
earthquakes plate tectonics 1968 Dec p 60-70 [875]	see also birth control
speciation, ontinent	contractite proteins, flagella, keratin, myosin epidermis 'k m e f' group
Ontinent	moulity in bacteria 1951 Jan p 20-24 contracting-Earth theory, continental drift science history Pangaea plate
1909 Mids p 34-04 [077]	tectonics, Wegener's hypothesis 1975 Feb p 88-97
- magnetic reversals, ungill of occurs	contraction, fixed point theorems, mathematics, topology surface
	deformation 1966 Jan p 105–110
plate tectonics, sea-floor spreading, ocean ridges, consection currents,	contrails, aerodynamics, aircraft-wake vortexes, flight safety jet flight
Earth mantle, tensile-stress hypothesis 1969 Nov p 102-119	wake turbulence 1974 Mar p 76-83
A Co-tempole Ded Sea Rift Valley, Ellyot, Gull of Addition	contrast percention, contour perception. Much bands, neuronal response
spreading sea-floor spreading opens new ocean 1970 Feb p 32-40 [891]	optical illusion, visual perception, Craik-O'Brien effect
decempeding Earth crust.	1972 June n. 90-101 (543)
plate tectonics, scaling, subduction, sea-floor spreading Earth crust,	spatial frequency, visual perception, visual thresholds
Triassic period, Pangaea, computer in 1970 Oct n 30-41 [892]	1974 Nov p 106-114 [1308]
breakup of Pangaea traced	al system nervous system
earthquake zones, magnetization patterns, substantial formation, plate tectonics, sea-floor spreading, overview of the new [972 May p 56-68 [900]	economic system automatic control, feedback concept
formation, plate tectonics, sea-floor spicatings of 1972 May p 56-68 [900]	1952 Sept p 48-55
geolog)	

evolution, thermonuclear energy 1971 Sept p 50–59 [662]	Coulomb, friction, Leonardo, technology history, sliding surfaces,
cosmology, solar system, Sun, dust cloud hypothesis, gravity, light	molecular cohesion, 'coppering' 1951 Feb p 54-58
pressure, gravitational collapse, thermonuclear reaction, genesis of	Coulomb force, electromagnetism, molecular physics, intermolecular
	force, measurement of intermolecular force between macroscopic
	bodies 1960 July p 47–53
red shift, galactic recession, element abundance, 'synthetic' elements,	Coulomb's law, electromagnetic radiation, photon, quantum mechanies,
universe expansion 1948 July p 20–25	
Palomar Observatory, Hale telescope, Schmidt telescope, galactic	mass of photon 1976 May p 86–96
survey, 200-inch and 48-inch Palomar telescopes	counter-current exchange, kidney, urine, nephron, glomerulus, osmosis,
1948 Aug p 12–17	anatomy and physiology of the kidney 1953 Jan p 40–48 [37]
Palomar Observatory, red shift, stellar populations interstellar matter,	rete mirabile, heat conservation, physiology, swim bladder, kidney, gill,
galactic evolution, Hale telescope, first yield from 200 inch telescope	physics of a physiological invention 1957 Apr p 96
1952 Feb p 43–51	counterfeiting, coins, numismatics, Roman Britain 1974 Dec p 120-130
universe expansion, Olber's paradox, world lines, curvature of space,	counterforce strategy, military deterrence, arms control, arms race,
red shift, galactic evolution, evolutionary universe, element	atomic weapons, USA-USSR negotiating postures
formation, genesis 1954 Mar p 54-63	1962 Apr p 45–53
politics, Laplace, physics, life and work of Pierre Simon de Laplace	fallout shelters, civil defense, arms race, social psychology, social
1954 June p 76–81	impact of fallout shelters 1962 May p 46-51 [637]
astronomy, philosophy of science, galactic clusters, universe, planetary	radar blackout, atomic warfare, arms race, ABM, ICBM, US ABM
motion, solar system, introduction to single-topic issue on the	system capabilities and limitations 1968 Mar p 21-31
universe 1956 Sept p 72–81	ABM, MIRV, SALT, deterrence, ICBM, arms race, dynamics,
universe evolution, 'big bang' theory, universe, space curvature,	instability of arms race 1969 Apr p 15-25 [642]
according to Gamow 1956 Sept p 136-154	ABM, arms race, ICBM, MIRV, SLBM, mutual assured destruction,
energy transformation, universe, steady-state universe, according to	strategic balance, national security 1969 Aug p 17-29 [330]
Hoyle 1956 Sept p 157–166	atomic weapons, arms race, SALT, MIRV, mutual assured destruction,
red shift, universe expansion, universe, spectroscopy, galaxies	M1RV, as key to SALT negotiations 1970 Jan p 19–29 [654]
recession velocity, galactic clusters, observational cosmology	ABM, ICBM, MIRV, atomic armaments, strategic weapons, mutual
1956 Sept p 170–182 [240]	assured destruction, arms race 1973 Nov p 18–27
galactic clusters, probability, universe, gravitation, Monte Carlo	mutual assured destruction, military expenditures, SALT, arms race, MIRV, MARV 1974 May p 20-31
method, distribution of galaxies as test of cosmologies 1956 Sept p 187-200	
	atomic weapons, cruise missiles, MIRV, arms race, missile accuracy,
universe evolution, science history, philosophy of science, a skeptical	strategic weapons, CEP, accuracy as multiplier of force
view of cosmology 1956 Sept p 224–236	1975 July p 14–23
antimatter, high-energy physics, antiproton, antineutron, Bevatron,	counters, see Geiger counter, scintillation counter
'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-39	courtship display, sexual behavior, animal behavior 1950 July p 52–55
antimatter, Leidenfrost phenomenon, Zeeman effect, Klein theory,	stickleback, animal behavior, sexual behavior, displacement activity,
high-energy physics, high-energy physics and cosmology	ethology 1952 Dec p 22–26 [414]
1967 Apr p 106–114 [311]	gulls, animal behavior, releaser stimulus, displacement activity,
universe expansion, cosmic background radiation, 'big bang' theory,	ethology 1954 Nov p 42–46
low-energy radiowaves, isotropy, primeval fireball, helium	bowerbirds, sexual behavior, animal behavior, arena behavior,
abundance, 'big bang' theory and cosmic background radiation	Australian bowerbird, natural history 1956 June p 48-52
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hcavy-element formation, plutonium 244 1971 June p 54	materials technology, polymers natural polymers, plastics, cross-
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1967 Aug p 50-59	The state of the superior de Carriopela calactic collision with and and
	stars counted some speculation on their nature 1953 Jan p 17-21

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1968 Oct p 36-43	radio galaxies, synchrotron radiation, galaxy M 82, exploding galaxies
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1955 Jan p 54~60 [8]	boson, scintillation counter boson, detection of natural neutrinos 1966 Feb p 40-48
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'big bang' theory, deuterium-hydrogen ratio, deuterium synthesis, heavy hydrogen, interstellar matter 1974 May p 108–118 'big bang' theory, 'closed' universe, 'open' universe, universe expansion, deuterium abundance, age of elements, average density 1976 Mar p 62–79 heavier radioactive elements 1956 June p 60 biggest red shift 1958 Sept p 86 universe expansion, electrostatic repulsion explanation of expansion 1959 Oct p 84 steady-state universe vs 'big bang', N G C 188 1960 Mar p 85 cosmological uncertainty 1960 Sept p 102 Einstein-De Sitter universe 1961 Feb p 74 heavy-element formation, plutonium 244 1971 June p 54 most distant object, quasar OH471 1973 June p 38 a 12th century European school 1978 Jan p 68 cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32–38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 74 'cost-push' inflation, 'demand-pull', economic analysis, inflation, input-output analysis	Welder Wildlife Refuge Insect behavior, bee dances, pheromones, sex attractants I 972 Sept p 52–60 [1280] courtship song, fruit fly, sexual behavior, releaser stimulus, insect behavior, species specificity I 970 July p 84–92 covalent bonds, ionic bonds, hydrogen bonds, Van der Waals force, long-range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long-range force I 948 Oct p 14–17 solid state physics, crystal structure, X-ray diffraction, ionic bonds, metallic bonds, molecular bonds, energy levels, the nature of solids I 952 Dec p 39–49 [249] aluminates, materials technology, ceramics, crystal structure silicates, heat resistance, ionic bonds, nature of ceramics I 967 Sept p 112–124 materials technology, polymers, natural polymers, plastics, crosslinking I 967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, vaccination, vaccination, vaccination, before Jenner I 976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses I 959 Feb p 88–97 CP: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal I 969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images I 965 Dec p 28–36 [301] CPT symmetry, antigravity, time reversal, antimatter, probability, philosophy of science
'big bang' theory, deuterium-hydrogen ratio, deuterium synthesis, heavy hydrogen, interstellar matter 1974 May p 108–118 'big bang' theory, 'closed' universe, 'open' universe, universe expansion, deuterium abundance, age of elements, average density 1976 Mar p 62–79 heavier radioactive elements 1956 June p 60 biggest red shift 1958 Sept p 86 universe expansion, electrostatic repulsion explanation of expansion 1958 Cepheid variable, intergalactic yardstick lengthens 1958 Sept p 86 universe expansion, electrostatic repulsion explanation of expansion 1959 Oct p 84 steady-state universe vs 'big bang', N G C 188 1960 Mar p 85 cosmological uncertainty 1960 Sept p 102 Einstein-De Sitter universe 1961 Feb p 74 heavy-element formation, plutonium 244 1971 June p 54 most distant object, quasar OH471 1973 June p 38 a 12th century European school 1978 Jan p 68 cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32–38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254–266 cost of living, household appliances 1967 Sept p 754–266 cost of living, household appliances 1967 Sept p 754–266 cost of living, household appliances 1971 Nov p 15–21 cotton, mildew-proofed 1953 Oct p 58 cotton picker, mechanical harvesting agricultural technology tomator	Welder Wildlife Refuge Insect behavior, bee dances, pheromones, sex attractants 1972 Sept p 52–60 [1280] Courtship song, fruit fly, sexual behavior, releaser stimulus, insect behavior, species specificity 1970 July p 84–92 covalent bonds, ionic bonds, hydrogen bonds, Van der Waals force, long- range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long-range force 1948 Oct p 14–17 solid state physics, crystal structure, X-ray diffraction, ionic bonds, metallic bonds, molecular bonds, energy levels, the nature of solids 1952 Dec p 39–49 [249] aluminates, materials technology, ceramics, crystal structure silicates, heat resistance, ionic bonds, nature of ceramics 1967 Sept p 112–124 materials technology, polymers, natural polymers, plastics, cross- linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images 1965 Dec p 28–36 [301] philosophy of science 1967 Jan p 98–108 CPT symmetry, antigravity, time reversal, antimatter, probability, philosophy of science 1967 Jan p 98–108
'big bang' theory, deuterium-hydrogen ratio, deuterium synthesis, heavy hydrogen, interstellar matter 1974 May p 108–118 'big bang' theory, 'closed' universe, 'open' universe, universe expansion, deuterium abundance, age of elements, average density 1976 Mar p 62–79 heavier radioactive elements 1956 June p 60 biggest red shift 1958 Sept p 86 universe expansion, electrostatic repulsion explanation of expansion 1959 Oct p 84 steady-state universe vs 'big bang', N G C 188 1960 Mar p 85 cosmological uncertainty 1960 Sept p 102 Einstein-De Sitter universe 1961 Feb p 74 heavy-element formation, plutonium 244 1971 June p 54 most distant object, quasar OH471 1973 June p 38 a 12th century European school 1978 Jan p 68 cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1952 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32–38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254–266 cost of living, household appliances 1967 Sept p 74 'cost-push' inflation, 'demand-pull', economic analysis, inflation, input-output analysis 1971 Nov p 15–21 cotton, mildew-proofed 1953 Oct p 58 cotton picker, mechanical harvesting agricultural technology, tomato harvester, hay cuber, cherry picker, grain combine	Welder Wildlife Refuge Insect behavior, bee dances, pheromones, sex attractants 1972 Sept p 52–60 [1280] courtship song, fruit fly, sexual behavior, releaser stimulus, insect behavior, species specificity 1970 July p 84–92 covalent bonds, ionic bonds, hydrogen bonds, Van der Waals force, long-range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long-range force 1948 Oct p 14–17 solid state physics, crystal structure, X-ray diffraction, ionic bonds, metallic bonds, molecular bonds, energy levels, the nature of solids 1952 Dec p 39–49 [249] aluminates, materials technology, ceramics, crystal structure silicates, heat resistance, ionic bonds, nature of ceramics 1967 Sept p 112–124 materials technology, polymers, natural polymers, plastics, crosslinking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, vanolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images 1965 Dec p 28–36 [301] CPT symmetry, antigravity, time reversal, antimatter, probability, philosophy of science 1967 Jan p 98–108 CPA Symmetry, supernovae, Stellar evolution 1949 Dec p 18–21
'big bang' theory, deuterium-hydrogen ratio, deuterium synthesis, heavy hydrogen, interstellar matter 1974 May p 108–118 'big bang' theory, 'closed' universe, 'open' universe, universe expansion, deuterium abundance, age of elements, average density 1976 Mar p 62–79 heavier radioactive elements 1956 June p 60 biggest red shift 1958 Sept p 86 universe expansion, electrostatic repulsion explanation of expansion 1958 Cepheid variable, intergalactic yardstick lengthens 1958 Sept p 86 universe expansion, electrostatic repulsion explanation of expansion 1959 Oct p 84 steady-state universe vs 'big bang', N G C 188 1960 Mar p 85 cosmological uncertainty 1960 Sept p 102 Einstein-De Sitter universe 1961 Feb p 74 heavy-element formation, plutonium 244 1971 June p 54 most distant object, quasar OH471 1973 June p 38 a 12th century European school 1978 Jan p 68 cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32–38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254–266 cost of living, household appliances 1967 Sept p 754–266 cost of living, household appliances 1967 Sept p 754–266 cost of living, household appliances 1971 Nov p 15–21 cotton, mildew-proofed 1953 Oct p 58 cotton picker, mechanical harvesting agricultural technology tomator	Welder Wildlife Refuge Insect behavior, bee dances, pheromones, sex attractants 1972 Sept p 52–60 [1280] courtship song, fruit fly, sexual behavior, releaser stimulus, insect behavior, species specificity 1970 July p 84–92 covalent bonds, ionic bonds, hydrogen bonds, Van der Waals force, long-range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long-range force 1948 Oct p 14–17 solid state physics, crystal structure, X-ray diffraction, ionic bonds, metallic bonds, molecular bonds, energy levels, the nature of solids 1952 Dec p 39–49 [249] aluminates, materials technology, ceramics, crystal structure silicates, heat resistance, ionic bonds, nature of ceramics 1967 Sept p 112–124 materials technology, polymers, natural polymers, plastics, crosslinking cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT symmetry, antigravity, time reversal, antimatter, probability, philosophy of science 1967 Jan p 98–108

universe, Cassiopcia, radio galaxies, Cygnus A, red shift, colliding	neurophysiology, imagination, neuronal networks, cerebral cortex,
galaxies 1956 Sept. p. 204-2: synchrotron radiation, radio star, supernovae, natural synchrotron	20 physiology of imagination 1958 Sept. p. 135-146 [65]
1957 Mar n 52-4	psychology, imagination, psychological testing, psychology of imagination 1958 Sept. p. 150-166
polarization, astronomy, supernovae, photometric observations of no	va science funding, science policy, university science, freedom of science.
X-ray astronomy, sychrotron radiation. Scornius neutron stars. Y-ray	conditions favoring advance in science 1958 Sept. p. 170–178
astronomy by rocket-horne instruments 1964 June p. 36-2	
neutron stars, pulsar, radio source, stellar evolution, gravitational collapse, angular momentum 1971 Jan. p. 48-6	elaboration of colonial languages 1959 Feb. p. 124-134
natural synchrotron 1956 Jan. p. 4	creosote bushes, descrit ecology, Joshua trees, mesquite 1955 Apr. p. 68-75 [114]
ncutron star origin of X-rays disproved 1964 Sept. p. 8	Crete, Myccnacan civilization, Hebrew civilization, Linear A script,
erabs, biological clock, diatoms, marine algae, sand hoppers, tidal-zone	Linear B script, Minoan civilization, Semites, common origin of Greek and Hebrew civilizations 1965 Feb. p. 102-111
organisms, tidal rhythms, integration of biological and sidercal	cricket song, behavioral genetics, insect behavior, nervous system
cycles 1975 Feb. p. 70-79 [1316 crankcase oil, as pollutant 1973 Feb. p. 4	5] 1974 Aug. p. 34-44 [1302]
eratering, moon, metcorites, tectonic processes, origin of lunar craters	8 crime, adolescence, family, alienation, racial discrimination, divorce, poverty, infant mortality, suicide, drug addiction, changes in
1949 July p. 20-24 fossil crater, Chubh crater, meteoritic impact, astroblemes	4 American family structure 1974 Aug. p. 53-61 [561]
1951 May p. 64-69	eye-witness testimony, perception, memory, jury trial 1974 Dec. p. 23-31 [562]
meteorite craters, fossil crater, fossil craters in Canadian Shield	erime detection, police laboratory, forensic chemistry
1958 July p. 32-39 metcorites, projectile, impact crater, fluid impact, effect of high-speed	
impact 1960 Oct. p. 128–140	crime statistics, uniform crime report 1977 July p. 56
coesite, metcorites, astroblemes, shatter cones, fossil Earth- catastrophes 1961 Aug p. 50-58 (80)	criminal law, asocial behavior, behavioral psychology, human behavior,
catastrophes 1961 Aug. p. 50-58 [801] moon surface, spacecraft, lunar geology, lunar exploration, structure,	punishment, criminology, milieu therapy, behavioral science and the criminal law 1963 Nov. p. 39-45 [480]
history, origin of moon from nine spacecraft visitations	expert witnesses, insanity defense, M'Naghten rule, Durham rule,
1967 Mar. p. 60-74 Mariner 6, Mars, Mariner 7, telemetry, orbital motion, polar cap,	psychiatrists as witnesses 1974 June p. 18-23 insanity defense 1972 Nov. p. 51
television camera, surface pictures and map of Mars	criminal responsibility, evidence in brain waves? 1950 Apr. p. 36
1970 May p. 26-41 bomb craters, ecological warfare, defoliation, laterization, Vietnam war	criminology, asocial behavior, behavioral psychology, criminal law, human behavior, punishment, milieu therapy, behavioral science and
1972 May p. 20–29 [1248]	the criminal law
planets, solar system, Earth, Venus, Venutian atmosphere	critical field strength, superconductivity, low-temperature physics, superconductive motor, fluxtrap, superconductive bearing.
1975 Sept. p. 70-78 dust storms, Mars, terrestrial planets, tectonic processes, mountain	superconductive amplifier applications of superconductivity
formation, erosion, hydrology, solar system 1975 Sept. p. 106-117	1960 Mar. p. 74-82 critical path scheduling, scheduling, combinatorial analysis, algorithms,
meteorite bombardment, planetary ages, solar system evolution, cratering of four inner planets as key to solar-system history	hin nactions mathematication of afficiency
1977 Jan. p. 84-99 [351]	1978 Mar. p. 124-132 [3001] critical temperature, superconductivity, high pressure, critical
ultramafic-mafic lava rock 1976 June p. 50 see also: astroblemes	tamparatura in cartain matale ingrances with pressure
craters, Mercury, planets, solar system, Mariner 10 mission 1975 Sept. p. 58-68	1971 Apr. p. 83-94 Cro Magno art, Paleolithic Europe, Magdalenian, Aurignacian-
creationism Darwinism evolution, Bryan, Darrow, Scopes trial, Scopes	Perigordian, cave paintings 1953 Aug. p. 30-35
trial II S A 1959 Jan. p. 120–130	crocodile, animal behavior, Nile crocodile, parental care, reptile 1976 Apr. p. 114-124
Darwinism, evolution, religion, Scopes trial, science teaching, antievolution laws in U.S. 1969 Feb. p. 15-21	Crossus probablished eventuation Ludion similaration Sardis DIII
science teaching evolution, religion, curriculum reform, Darwinsm,	century B.C. 1961 June p. 124 195
Bible, high school, Man, a Course of Study, biological sciences curriculum study	1961 Apr. p. 103-110
Darwinism, Tennessee 'monkey law' repealed 1967 July p. 42	Crookes tube, cathode-ray tube, oscilloscope, vacuum tube, Ferdinand Braun's invention 1974 Mar. p. 92-101
Darwinism creationism in California textbook controversy	crop yields, agronomy, plant breeding, rice, wheat, maize, food and
1971 Jan. p. 40	cropping systems, agricultural aconomics, agricultural system food and
Darwinism, Mississippi court overturns 'monkey law' 1971 Feb. p. 46	agriculture 1976 Sept. p. 98-105
Darwinism, 'equal time' in California schools 1972 Aug. p. 43 Darwinism, 'equal time' for creationism in California rescinded	cross-eyed trait, albinism, gene mutation, Siamese cat, visual cortex, white mink, white tiger 1974 May p. 44-54 [1294]
1375 1 co. p	cross-linking, materials technology, polymers, natural polymers, plastics, covalent bonds 1967 Sept. p. 148-156
Darwinism, creationist textbook banned from Indiana schools 1977 June p. 61	cross transfusion, between humans 1951 Oct. p. 30
1965 Jan. p. 50	crow, ornithology, signal behavior, animal behavior, language of crows 1959 Nov. p. 119-131
creativity, scientific revolution, Renaissance, Leonardo, plane per creativity, scientific revolution, revolution, respective per creativity, scientific revolution, r	crow-calls, animal behavior, bird semantics 1956 Aug. p. 52
science, introduction to single-topic issue 1958 Sept. p. 58–65	crowding, group behavior, rats, population density, comparative psychology, social pathology of crowding
mathematical invention, set theory, analytic geometry, Fermat's last theorem, innovation in mathematics 1958 Sept. p. 66-73	1962 Feb. p. 139-148 [506] crown gall, cancer, plant tissue culture 1952 June p. 66-72
theorem, innovation in mathematics physics, physical models, mathematical model, innovation in physics physics, p. 74-82	emise missiles, counterforce strategy, atomic weapons, MIRV, arms race,
successful selection, innovation	missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23
in biology	arms race, SALT, strategic weapons, tactical weapons, control systems,
in biology invention, industrial research, applied science, solid state physics, Bell Laboratories solid-state physics 1958 Sept. p. 116-130	navigation systems 1977 Feb. p. 20–29 [691]

arms control, SALT, bombers, strategic weapons, Carter	diamond-crystal structure, synthetic diamonds, graphite-crystal
administration 'comprehensive proposal' for US-USSR. force	structure, synthesis at low pressure 1975 Nov p 102-109
levels 1977 Aug p 24-31 [696]	crystal structure, piezoelectricity, quartz, ultrasonic transducer, nature
crustacea, animal navigation, bee, solar navigation 1954 Oct p 74-78	and uses of piezoelectricity 1949 Dec p 46-51
animal communication, fish communication, whale, porpoises, marine	chemistry, chemical bond, molecular structure, protein structure,
biology, animal sounds in the sea 1956 Apr p 93–102	chemical kinetics, science, chemistry 1900-1950 1950 Sept p 32-35
crustal movement, continental drift, sea-floor spreading, magnetic	solid state physics X-ray diffraction ionic bonds, covalent bonds,
reversals, earthquakes, plate tectonics 1968 Dec p 60-70 [875]	metallic bonds, molecular bonds, energy levels, the nature of solids 1952 Dec p 39-49 [249]
crying, communication, infant behavior, neonatal disorder, mother-child	
interaction, sound spectrogram 1974 Mar p 84-90 [558]	physics polygons, polyhedra, axis of rotation philosophy of science, topological limits of physics 1953 Jan p 50-56
cry ogenic pump, spectroscopy, vacuum, ultra-high vacuum, oil diffusion	topological limits of physics 1953 Jan p 50-56 metallurgy, zone melting, vacuum furnace, pure metals
pump, sputter-ion pump, mass, vacuum down to 10 12 mm of mercury 1962 Mar p 78-90	1954 July p 36–40
mercury cryogenic storage, spermatozoon bank, tissue preservation, frostbite,	dislocations, edge dislocation, soap bubbles, slip planes
freezing of living cells 1956 June p 105–114	1955 July p 80–87 [204]
energy resources, hydrogen, electrolyzer technology, hydrogen-energy	neutron, radiation, nuclear fission, solid state physics, effects of
economy, liquified hydrogen, fuel cell 1973 Jan p 13–21	radiation on solids 1956 Aug p 76-84 [245]
cry ogenic technology, low-temperature physics, helium, superfluidity.	diffusion, metallurgy, wandering of atoms in crystal lattice
superconductivity 1949 June p 30-39 [206]	1957 May p 103-110
superconductivity, computer technology, superconducting computers	field-emission microscope, metals, pictures of atoms
1961 July p 124-136	1957 June p 113–122
Stirling cycle, refrigeration, hot-air engine, closed cycle, displacer	cellulose, rayon, forest products, lignin, polymers, paper,
1965 Apr p 119–127	polysaccharides, overview of natural polymer 1957 Sept p 156–168
cryogenics, free radicals, frozen free radicals, free radicals trapped for	materials technology, metals, aligned crystals, alignment of crystals for control of mechanical and magnetic properties
study 1957 Mar p 90–102 [263]	1959 Apr p 125–141
electrical resistance, superconductivity, magnetism, upper limit of temperature of superconductivity 1957 Nov p 92-103 [227]	ionizing radiation, metals, solid state physics, displacement of crystal
temperature of superconductivity 1957 Nov p 92–103 [227] sound energy, heat conduction, phonon, thermoelectricity, quantum	structure by radiation 1959 Sept p 200–213
mechanics of heat conduction 1962 Dec p 92-104 [288]	molecular motion, computer modeling, particle motion key to bulk
fluid dynamics, liquid, supercooling, nucleation, crystal growth,	properties of materials 1959 Oct p 113–126 [265]
behavior of supercooled fluids 1965 Jan p 38-46	stress fracture, materials technology, metallurgy, cracks and fracture
argon, crystal structure, noble gases, solid state physics, solid noble	1960 Feb p 94–104
gases 1966 Oct p 64-74	magnetism, ferrites, materials technology, microwave radiation,
supercooling, helium 3/helium 4 dilution, nuclear cooling, approaching	computer memory, industrial applications of iron oxides
absolute zero, Pomeranchuk method 1969 Dec p 26–35	1960 June p 92–104
heat, diffusion, solid state physics, thermal waves, second sound, wave propagation, phonon, helium, thermal waves in solid helium	lattice defects, lattice dislocations observed 1961 Oct p 107–116 Fermi surface, metals, gross properties explained as quantum effects
1970 May p 92–101	1963 July p 110–120
cryostat, see cryogenics, liquid helium, low-temperature physics	steel alloys, ausform process, materials technology, heat-treating for
cryptands, alkali-metal anions, alkali-metal cations, electron orbitals	strength 1963 Aug p 72-82
solvated electrons, quantum mechanics 1977 July p 92-105 [368]	boron, metalloid element, borane fuels, properties and applications of
cryptobiotic animals, animal behavior, metabolism, anaerobic	boron compounds 1964 Jan p 88–97
metabolism, suspended animation, Nematoda, Rotifera, Tardigrada	metals, whiskers, fiber-reinforced, dislocations, matrix, composite
1971 Dec p 30-36	materials, two-phase materials 1965 Feb p 28–37
cryptococcal meningitis, baking, yeast, brewing, riboflavin synthesis, fermentation, cell physiology, yeasts, useful and noxious	crystallography, electron diffraction, slow electrons as diffraction probe 1965 Mar p 32-41
1960 Feb p 136–144	corrosion tunnel stress-corrosion failure, dislocations, metalliding
cryptography, code security, computer privacy, data-bank confidentiality	1966 Feb p 72-81
1973 May p 15~23	boron, crystallography, X-ray diffraction 1966 July p 96-107
cryptology, Sumer, hieroglyphs, a 3,500-year-old agricultural handbook	argon, cryogenics, noble gases, solid state physics, solid noble gases
1951 Nov p 54-55	1966 Oct p 64-74
Linear B script, Homer, Minoan language, Greek civilization, an	crystallography, ice, water molecules snow crystals, migrating lattice
account of the decipherment 1954 May p 70-75 code, polyalphabetic systems, rotor machine, cipher, history and	faults in ice 1966 Dec p 118-126 [307] alloys, eutectics, metallurgy, controlled eutectics, whiskers, controlled-
technology of making and breaking ciphers and codes	cooling magnets 1967 Feb p 86-92
1966 July p 38-46	helium, solid state physics, zero-point motion, quantum solid, solid
cryptosphere, cryptozoa, Berlese funnel, natural history, ecological niche,	helium, physical and theoretical properties 1967 Aug p 84-95
animal behavior, life under rocks and rotting logs	solid-state electronics, X-ray crystallography, metals, semiconductor,
1968 July p 108–114 [1112]	nonmetals, materials technology, amorphous solid electrical
cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere,	conductivity 1967 Sept p 80–89
animal behavior, life under rocks and rotting logs 1968 July p 108-114 [1] 12]	alloys, materials technology, metals, grain boundaries, lattice defects,
crystal defects, materials technology, solid state physics, epitaxial growth,	dislocations, electron 'gas', nature of metals 1967 Sept p 90-100 aluminates, materials technology, ceramics, silicates, heat resistance,
surface chemistry, precipitation in solids, 'doping', chemical	ionic bonds, covalent bonds nature of ceramics
properties of materials 1967 Sept. p. 210-220	1967 Sept. p. 112–124
crystal energetics, crystal structure, metallurgy, conduction electrons,	amorphous solid materials technology, glass, supercooling, geometry
quantum mechanics quasi particle concept, Fermi surface, metal	of glass two-phase glasses 1967 Sept p 126-136
properties 1973 Jan p 88–98 crystal growth, spiral growth screw dislocation, loop growth	channeling, ion beam 1968 Mar n 00-08
1955 Mar p. 74–80	phase memory, photon echoes laser, nuclear-spin echo
surface defects, metal 'whiskers', lattice defects, growth of metal	l968 Apr p 32-40 Bragg's law, X-ray crystallography, atomic structure, X-ray diffraction,
whishers 1960 Tuly p. 64-77	Fourier analysis
condensation nuclei, snow crystals natural and artificial condensation	hithasis kidney calculi, X-ray diffraction bladder stones gallstones
nuclei 1961 Jan p 120-131 fluid dynamics, liquid supercooling, nucleation eryogenics, behavior	umai (calcul 1060 T) = 104 111
of supercooled fluids 1965 Jan p. 38.46	metals, Array diffraction figure state, physics of metals in the bound
of supercooled fluids 1965 Jan p 38–46	state 1969 July p 72–82
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carrier-wave generator, communication technology, diode laser, laser, heterostructure lasers, light-emitting semiconductor, solid-state electronics 1971 July p 32–40 BCS theory, electrical properties of metals, intermetallic compounds,	protograph, vinca culture, withing Tallana lables.
intercalated crystals, superconductors, layered superconductors	Romania, Sumer, Sumerian writing 1968 May p 30-37 similar symbolism from Tigris to Danubr 2,000 B C 1967 Aug p 40 cultural cyolution, agricultural revolution, Neolithic archeology, tools
erystal energetics, metallitrgy, conduction electrons, quantum mechanics, quasi-particle concept, Fermi surface, metal properties	slash-burn agriculture, Stone Age forestry and agronomy 1956 Mar p 36-41
corundum, cubic boron nitride, diamond, hardness, materials technology, Mohs scale 1974 Aug p 62-70	1956 May n 69-80
alloys, dendrites, nietal casting, metallurgy, solidification of metal	origin of Polynesians 1956 Aug p 58-72 toolmakers, man-apes, Olduvai Gorge, human evolution, role of tool
dislocations, forging, metal forming, strain hardening, creep in metals 1975 Apr p 116-125 antimatter, gamma radiation, gravitational interaction, positron	making in biological evolution of man, introduction to single-topic issue 1960 Sept p 62-75 [601] demographics, population growth, agricultural revolution, Industrial
probes, solid state physics, scintigraph 1975 July p 34-42 circle-grid analysis, metal stamping, sheet-metal production, strain	Revolution, population explosion, human evolution, historical perspective on human population growth, how many ever lived
crystals, calcite, calcium carbonate crystals, embryonie development, sea urchin embryo 1977 Apr p 82-92	climate, hunter-gatherer societies, Nile prehistory, Paleohthic settlements, stone tools 1976 Aug p 30-38
atomic structure, disclinations, dislocations, molecular structure, periodic structures 1977 Dec p 130-145 [393] polio virus architecture 1959 Aug p 65	cultural patterns, Irish families, Itahan families, sehizophrenia, sehizophrenia and culture 1957 Aug p 103-110
crystal surface waves, sound waves, communication technology, electronic equipment, Rayleigh waves, signal processing, ultrasonic	eommunication, mass-communication media, message systems, television violence, sociology, mass communications as social environment 1972 Sept p 152–160 [679]
waves 1972 Oct p \$0-68 crystal surfaces, molecular surface films, monomolecular films, two-dimensional crystals 1973 May p 30-40	cultural relativism, nonverbal communication, posture, anthropology 1957 Feb p 122–132 culture, genetic adaptation, human evolution, natural selection,
erystallographic techniques, atomic structure, 'extended fine structure' effect, materials technology, X-ray absorption 1976 Apr p 96-103	civilization, human evolution in man-made environment 1960 Sept p 206-217 [609] culture as concept, anthropology, human evolution, science, anthropology
crystallography, clathrates, inclusion compounds, gas hydrates, inclusion compounds in biology and technology 1962 July p 82-92 [280] laser, light refraction, nonlinear optics, light interactions, ultraviolet	1900-1950 1950 Sept. p 87-24 culture of poverty, group behavior, poverty, community action, subculture
radiation, photon 1964 Apr p 38-49 magnetothermoelectricity, thermomagnetic cooling, semimetal, solid-state refrigeration 1964 June p 70-82	of Western market societies 1966 Oct p 19-25 [631] poverty, Mexico City, buying habits, sociology 1969 Oct p 114-124 [651]
carbon, polyethylene, spherulites, plastics, solid state physics 1964 Nov p 80-94 electron diffraction, crystal structure, slow electrons as diffraction	Cumae, Greek civilization, Classical archeology, Italy, 8th c B C Greek colony first in Italy 1963 Dec p 108-121 cumulus clouds, trade wind clouds, climate, atmospheric circulation,
probe 1965 Mar p 32-41 Earth core, tron-nickel alloy, high-pressure technology, X-ray diffraction, core studies by analogy, diffraction patterns of tron	ocean-atmosphere interface 1953 Nov p 31-35 euneiform script, Sumer, law code, Lipit Ishtar, Hammurabi, earliest law code 1865 B C 1948 June p 44-47
alloys 1965 June p 100-108 boron, crystal structure, X-ray diffraction 1966 July p 96-107	archeology, Sumer, law code, 3000 B C to 1500 B C, Ur, Nippur 1957 Oct p 70-83 curare, learning, autonomic nervous system, heart rate, blood pressure,
ice, crystal structure, water molecules, snow crystals, migrating lattice faults in ice 1966 Dec p 118-126 [307] anthracene, photosynthesis, electron transfer, exciton, plants, organic	electrocardiography, learning voluntary control of autonomic nervous system 1970 Jan p 30-39 [525]
crystals, conjugated aromatic hydrocarbons 1967 Jan p 86–97 crystals, calcite, calcium earbonate crystals, crystal structure, embryonic dayslonment, sea urchin embryo 1977 Apr p 82–92	curiosity, fundamental research, science funding, 'mission-oriented' funding agencies, university science, NSF, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47-51
CS gas, baeteria, chemical weapons, biological weapons, Vietnam war, arms race, virus disease, rickettsiae, tear gas, herbicide, chemical-	rhesus monkeys, problem solving, genetic traits, animal behavior 1954 Feb p 70-75
cubic boron nitride, corundum, crystal structure, diamond, hardness, materials technology. Mohs scale 1974 Aug p 62-70	emission 1964 Jan p 108-110 currents, Coriolis effect, ocean circulation, wind effect, laboratory analogues 1970 Jan p 114-121 [390]
racial discrimination, genocide, Tasmanians, Yumbri, Yamana,	curriculum reform, science curriculum, science teaching, high school, not enough scientists and engineers 1954 Feb p 27-29 high school, science teaching, physics curriculum, Physical Science
cargo cult, Christianity, religion, Melanesian cargo cult 1959 May p 117-125 agricultural revolution, Fertile Crescent, human evolution, Neolithic	Study Committee, university sponsored curriculum reform 1958 Apr p 56-64 [229] education, mathematics teaching, high school, university sponsored
archeology, 8000 B C domestication of plants and almost an archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants and almost archeology, 8000 B C domestication of plants are almost archeology, 8000 B C domest	curriculum reform 1958 May p 64-74 [238] science teaching, evolution, religion, Darwinism, creationism, Bible high school, Man, a Course of Study, biological sciences curriculum
Solomon Islands culture Mesoluthic era, Ishango man, harpoon, African culture 10 000 B C 1962 June p 105-116	study 1976 Apr p 33-39 science teaching summer institutes for teacher-training
cultural archeology, Isimila, Paleolithic culture, stone 100ls Old Stone 1961 Oct p 118-129 Age site in Africa	science teaching U.S. secondary schools 1956 Apr. p. 72 science teaching U.S. secondary schools 1957 Feb. p. 57 science teaching U.S. secondary schools 1958 Feb. p. 40
Age site in Africa cultural assimilation. Amerindian, Hopi Indians, Tewa Indians Pueblo 1957 June p 126–136 Indians racial discrimination, Amerindian, genocide, civil rights, persisting 1960 Feb p 37–45	education funding, U.S. National Science Foundation program 1958 July p 47 Chemical Education Materials Study 1960 June p 82
identity of Amerindians cultural context of perception, cultural differences, split-style art, visual cultural context of perception, cultural differences, split-style art, visual perception, Hudson test 1972 Nov p 82–88 [551]	science teaching. Biological Sciences Curriculum Study 1960 July p 81

urtain wall, skyscrapers, building construction, load-bearing wall 1955 Mar p 44-48	cytochrome oxidase, ceruloplasmin, hemocyanin, oxyg cnzymes, copper deficiency, copper biochemistry,
	tyrosinase 19
wind bracing, skyscrapers, construction technology, Eiffel Tower, cantilever, truss bridge, steel frame construction	cytogene, cytoplasmic inheritance, reciprocal crossing,
1974 Feb p 92–105	inheritance, sex linked traits, non-Mendelian inhe sterility, paramecium, chloroplast, plastids, reviev
curvature of space, cosmology, universe expansion, Olber's paradox,	extra-chromosomal genetics 1950
world lines, red shift, galactic evolution, evolutionary universe,	cytokinins, auxins, plant growth, dormin, plant hormo
element formation, genesis 1954 Mar. p 54-63	1968 J
Riemann, non-Euclidian geometry, general relativity	
1954 Nov p 80–86	cytology, isotopes, radioautography, molecular biology
curved line, mathematics, straight line, Euclidean geometry, geometry,	radioisotopes in biological research
reach and limits of axiomatic approach 1956 Mar p 104-114	ionizing radiation, photoelectric effect, Compton eff
cushion plant, alpine environment, pinks, lammergeier, Himalayan	effects, free radicals, lethal effects of radiation
mountain ecology 1961 Oct p 68-78	plutonium, ultra-microchemistry, embryonic develo
cut glass, by photochemistry 1953 Mar p 50	isolation of plutonium established a new research
cuttlebone, marine biology, buoyancy, swim bladder, chambered nautilus	DNA sees
1960 July p 118–128	microsome, protein synthesis, ribosome, RNA, reco
cyanate, chemotherapy, genetic disease, anemia, hemoglobin, erythrocyte,	as site of protein synthesis 1958 N
sickle cell disease 1975 Apr p 44–50 [1319]	amoebae, cell, sol-gel reaction, high pressure, effect
cyanobacteria, algae, algal bloom, blue-green bacteria, gas vacuoles	cellular activity
1977 Aug. p 90–97 [1367]	chromosome breakage, radiation damage, ionizing r
cybernetics, feedback, automatic control, self-regulation, computer	radiation damage to living cell 1959 (
science, automata theory, mechanical, biological, social self-	cell nucleus, cytoplasm, cell organelle, chromosome,
regulation 1948 Nov p 14-19	RNA, DNA, endoplasmic reticulum, nuclear con
control theory, mathematics, computer programming, feedback,	ATP mitaghandran gura
frequency response, stability, dynamic programming, 'policy'	energy transformation, ATP, mitochondrion, citric-
concept 1964 Sept p 186–200	glycolysis, oxidative phosphorylation, membrane, transformation in the cell
communication technology, information theory, language, machine	
communication, communication, introduction to single-topic issue	cilia, flagella, structure and function 1961 F cell membrane, pinocytosis, cell metabolism, ingesti
on communication 1972 Sept p 30–41 [677]	membrane 19
cyclic AMP, acrasın, amoebae, adrenalın, social amoebae, slime mold, Dictyostelium 1969 June p 78–91	cell anatomy, spermatozoon, ovum, virus, science hi
	plant cell, connective tissue cell introduction to s
ACTH, ATP, glucogenesis, glycolysis, hormone, epinephrine, cell	the living cell 1961
metabolism, activation of cyclic AMP by hormones 1972 Aug p 97–105 [1256]	ATP, chloroplast, mitochondrion, photosynthesis, c
brain function, dopamine, endocrine system, messenger molecules,	glucogenesis, citric-acid cycle, glycolysis, oxidativ
nervous system, neurotransmutters, L-DOPA treatment, Parkinson's	cellular transformation of energy 1961
disease, 'second messengers', brain endocrinology	nbosome, protein synthesis, DNA, mRNA, tRNA, i
1977 Aug p 108–119 [1368]	chromosome, how cells make molecules 1961
cyclic molecules, catenane, chemical topology, topological isomer,	mitotic apparatus, chromosome, meiosis, mitosis, m
molecular structure, ring molecules, linking and knotting of ring	division 1961 S
molecules 1962 Nov p 94–102 [286]	cell differentiation, tissue specialization, 'lampbrush
cyclone, wind, meteorology, atmospheric circulation, anticyclones, source	embryonic development, zygote, fertilization, ovu
of prevailing winds 1956 Dec p 40–45 [841]	specialize 19
East Pakistan flood, flood disasters 1971 Mar p 46	cell aggregation, tissue differentiation, cell 'recogniti
cyclosis, actinomyosin, cilia, muscle contraction, flagella, cytology,	development, how cells associate 19
cytoplasmic streaming, actin, myosin, underlying unity of cellular	active transport, passive transport, pinocytosis, pha
motion 1961 Sept p 184-204 [97]	cell membrane, fertilization, functions of cell men
cyclosomes, cardiac function, hagfish, comparative psychology, knot-	1961 S
tying fish, hermaphrodite 1966 Feb p 82–90 [1035]	actinomy osin, cyclosis, cilia muscle contraction, fla
cyclotron, colliding beam accelerator, synchrotron, high-energy physics,	streaming, actin, myosin, underlying unity of cells
strong-focusing synchrotron, design and purposes of big accelerators 1958 Mar p 64-76 [251]	1961 S
technological advances 1959 Jan p 69	cell communication, central nervous system, nerve c
Cygnus A, universe, Cassiopeia, radio galaxies, red shift, Crab Nebula,	ganglion reflexes, neuroreceptors, retina, nerve in neurotransmitters, neural synapse, neuromuscula
colliding galaxies 1956 Sept p 204–220	
Cygnus X-1, binary stars, black hole, black hole search	hearing, vision, sensory organs ommatidia, neurore
1974 Dec p 32-43	buds, how cells receive stimuli 1961 Se
Cygnus X-3, radio outbursts 1973 Jan p 45	bacteriology, microorganisms, PPLO, virus, electror
cytochrome, chlorophyll, tetrapyrrole ring, hemoglobin, respiration,	smallest free-living cells 1962 Mai
enzymes, tetrapyrrole virtuosity 1958 Aug p 77-81	Barr body, sex differences, chromosome, genetic mo
chlorophyll, photosynthesis, chloroplast, electron transfer, ATP.	syndrome, Turner's syndrome, chromosomal ano
pigments, role of chlorophyll in photosynthesis,	differences in tissue cells 1963
1965 July p 74–83 [1016]	dialectical-materialist cell theory
evolution, proteins, species specificity, computer analysis, amino-acid	electron micrograph of living cell
substitution, phylogeny from amino-acid substitution	reconstituted amoebas
1969 July p 86–95 [1148]	cytoplasm, cell nucleus, cell organelle, chromosome, ce
cytochrome antagonist, diphtheria toxin toxicity, diphtheria toxoid, diphtheria antitoxin 1952 Oct. p. 32–36	RNA, DNA, endoplasmic reticulum, cytology, nu
diphtheria antitoxin 1952 Oct p 32–36 cytochrome C, protein evolution, protein structure, respiration, amino-	Agotahulana
acid substitution, mutation rate, 1.2 billion year record of evolution,	Acetabularia, giant cells mermaid's wineglass, cell r
ancient protein 1972 Apr. p. 58-72 [1245]	cells in study of nucleus-cytoplasm interaction
cytochrome helix, mathematical model, computer modeling grant	1966 Nov cytoplasmic inheritance, reciprocal crossing, maternal
molecules myoglobin, hemoglobin, molecular modeling DNA	linked traits non-Mendelian inheritance male ste
1966 June p 42-52 [1043]	chloroplast plastids extogene review of and area

en transport, Wilson's disease, 68 May p 102-114 maternal ritance, male of evidence for an Nov p 30-39 [39] nes, giberellin July p 75-81 [1111] y, use of 1949 Feb p 30-41 fect, chemical 1951 Dec p 22-25 pment, chemistry, technology 1954 Feb p 76-81 gnition of ribosome Mar p 118-124 [52] of high pressure on 1958 Oct p 36-43 adiation, mutation, Sept p 94-100 [57] cell physiology, trol of cell 960 Jan p 126-136 acıd cycle, energy 60 May p 102-114 Feb p 108-116 [79] ion by outer 061 Apr p 120-130 story, muscle cell, ingle-topic issue on Sept p 50-61 [90] ell metabolism, e phosphorylation, Sept p 62-73 [91] nucleus, Sept p 74-82 [92] echanism of cell ept p 100-120 [93] chromosome, im, clone, how cells 61 Sept p 124-140 ion', embryonic 61 Sept p 142-165 gocytosis, osmosis, nbranes lept p 167-180 [96] gella, cytoplasmic ular motion ept p 184-204 [97] onduction, ipulse, synapse, how cells ept p 209-220 [98] ceptor cells, taste ept p 222-238 [99] n microscopy, ir p 117–126 [1005] saic, Klinefelter's malies sex July p 54-62 [161] 1958 Sept p 89 1961 Apr p 78 1970 May p 57 ll physiology, iclear control of cell 960 Jan p 126-136 nucleus algae, giant p 118-124 [1057] inheritance, sex erility, paramecium. chloroplast, plastids, cytogene, review of evidence for an extrachromosomal genetics 1950 Nov p 30-39 [39]

insecticide resistance, persistent insecticides

maternal inheritance, extranuclear DNA, mitochondria, chloroplast, Chlanydomonas 1965 Jan p. 20, 20 1000	insecticide, balsam-fir factor, insect hormones, insecticide resi
Chianydomonas 1965 Jan p 70-79 [1002 cytoplasmic streaming, actinomyosin, cyclosis, cilia, muscle contraction, flagella, cytology, actin, myosin, underlying unity of cellular motion	Juvenile hormone, species specificity, third-generation pesti
amocbae, phagocytosis, cell motility, sol-gel reaction, front contraction	soil pollution, herbicide, gamma radiation, X-ray, soil ecology 1969 Apr. p. 88-
theory of amochoid motion 1962 Feb p 112-122 [182 cytosurgery, microsurgery, micromanipulator, enucleation	l calcium metabolism, eggshell thinning, pollution, chorurated hydrocarbons, dieldrin, avian reproduction, insecticide, foo
1950 Oct p 48-5 micromanipulator, cell nucleus, on transplanting nuclei	ccological effect of pesticides 1970 Apr p 72- world shortage 1951 ?
1952 Apr. p 58-6	a peril to hone; bec 1951 A trace amounts in Antarette fauna 1965 Sc
	concentrations in marine mammals 1968 N DDT residues, insecticide, fallout, ecological cycles, food chain,
D	ccological redistribution of pollutants 1967 Mar p 24— De Forest, radio, triode, vacuum tube, Marconi, Fleming valve, d rectification, De Forest's 1906 contributions 1965 Mar p
daddy longlegs, Phalangida, harvestman, Arachinda, animal behavior, natural history 1962 Oct p 119-128 [137]	de re Metallica, Apricola, mondeurs from Honver translation
dairying, animal husbandry, cattle, Zebu cattle, European cattle, selective	dead galaxies, mean density of matter 1969 A
dam safety, reservoir, carthquake zones 1977 Jan n 46	
Dance of the Solids, materials technology, a poem by John Updike.	Gnostic library, Judaism, religion 1973 Jan 1
occasioned by the September 1967 issue 1969 Jan p 130-131 Danish history, peat bog, archeology, weapons deposits, organic relies	deafness, ear, directional orientation, hearing, cochlea 1957 Aug p 66
Danube River, pre-Neolithic village 1953 Oct p 84-88 1968 Apr p 50	Waardenburg's syndrome 1971 No death, aging life expectancy, biology of senescence 1948 June p
Darrow, Darwinism, evolution, creationism, Bryan, Scopes trial, Scopes	psychological autopsy 1968 Oc
trial, USA 1959 Jan p 120-130 Darwin, evolution, science history, Charles Darwin biography	death rate, aging, disease etiology, life expectancy, male female life expectancy 1958 Feb p
1956 Feb p 62-72 [108] Darwinism, Lysenkoism, Lamarck, acquired characteristics, genotype,	aging, life expectancy, comparative life spans in man and other a 1961 Aug p 1
evolution, phenotype, mutation, ostrich calluses, speciation, religion,	abortion, population, marriage rate, birth rate, vital statistics
orthodoxy, experiments in acquired characteristics 1953 Dec p 92-99	menarche, infant mortality, 1538-1812, parish registers, York, England 1970 Jan p 1
evolution, creationism, Bryan, Darrow, Scopes trial, Scopes trial, USA 1959 Jan p 120-130	birth rate, demographic transition, human population, population
natural selection, Wallace, science history, life and work of Alfred	death-simulation, opossum, marsupial, animal behavior, playing po
Russel Wallace 1959 Feb p 70-84 science history, Darwin's predecessors 1959 May p 60-66	Death Valley, desert pupish, fish, species isolation, endangered spe
evolution, religion, Scopes trial, science teaching, creationism, antievolution laws in U S 1969 Feb p 15-21	1971 Nov p 104-110 debt financing, economic development, Japan, employment policy,
science teaching, evolution, religion, curriculum reform, creationism, Bible, high school, Man, a Course of Study, biological sciences	investment, government-business relations, Japan's economic g
curriculum study 1976 Apr p 33–39	decimal system, mathematics, geometry, topology, quinary system,
evolution, Huxley's own account, 'apes and bishops' 1954 Mar p 52	tessellation, knots, primitive mathematics 1948 Dec p from atto- to tera-
creationism, Tennessee 'monkey law' repealed 1967 July p 42 creationism, textbooks in California 1970 May p 55	decision ma': 'ability, subjective probability, Mc
creationism, creationism in California textbook controversy 1971 Jan p 46	Carlo ctive and objective probability 1957 Nov p 128-138
creationism, Mississippi court overturns 'monkey law' 1971 Feb p 46	decision theory, mathematics, games theory, work of J Von Neuman and O Morgenstern 1949 May p 2
creationism 'equal time' in California schools 1972 Aug p 43	games theory, uncertainty principle, probability, pure strategy, car
creationism, 'equal time' for creationism in California rescinded 1973 Feb p 47	games illustrate theory 1951 Jan p 4 operations research, systems analysis 1951 Mar p 1
creationism, creationist textbook banned from Indiana schools	linear programming, mathematical model 1954 Aug p 2
1977 June p 61	games theory, minimax, pure strategy, mixed stratgey, worst-case analysis 1955 Feb p 7
Creationism at Michigan State University 1977 Dec p 87 Darwin's finches, speciation, Galapagos Islands, evolution	economics, mathematical model social sciences, mathematics in
1933 Apr p 00-72 (22)	economics and other social sciences 1964 Sept p 168 games theory, mathematical logic, paradox, 'metalogic' to solve
1 - 1 Allerton digital franchission 1200 acpt b 177-120	paradox 1967 July p 51 energy economics, power production, technology assessment, tort it
dating, see dendrochronology, coral rings, radioisotope dating, and the	economic planning market process 1971 Sept p 191-200 [
like Davisson-Germer experiment, electron, wave-particle duality, diffraction, 1948 May p 50-53	decompression, continental shelf exploitation, saturation diving, underwater shelters, diving, oceanographic exploration
interference fringes, electron diffraction	1966 Mar p 24-33 [10
history, Humphry Davy, biography 1960 June p 106–116	dedifferentiation of plant cells, tissue culture, plant tissue grafts plant hormones plant growth requirements 1950 Mar p 48
day-night temperature, climate, plant growth, greenhoose, and photoperiodicity, 'phytotron', environment simulator	dedifferentiation of tissue cells, embryonic development, regeneration, cancer 1949 Dec p 22-
was a star lunar orbit moon, tides	deep-sea diving, laser illumination 1970 Dec p deep-sea drilling. Earth crust, ocean evolution Pacific plate, plate
and the state of t	tectomes, sedimentary cores voyager of the Glomar Challenger 1973 Nov. p. 102–112 [9]
DDT: dichlorodiphenyltrichloroethane DDT, malana, W H O, mosquitoes, eradication of malana 1952 June p 22-25	deen-sea environment, bacteria barophilic bacteria, deep-sea microbes
1952 Julie p 22-25	Alvin submersible 1977 June p 42-52 [92

leep-sea microbes, bacteria, barophilic bacteria, deep-sea environment,	microcircuits in the nervous system 1978 Feb p 92–103 [1380]
Alvin submersible 1977 June p 42–52 [926]	dendrochronology, Douglass, science history, A E Douglass and tree-ring
leep-sea scattering layer, 'false bottom', marine biology, plankton, sonar,	clock 1952 Jan p 54–58
shripp, beteropod, deep-sea 'layer of life' 1951 Aug p 24-28	archeological dating, carbon 14 dating, European prehistory
sonar, echo-sounding, ocean floor, plankton, photic zone, false	1971 Oct p 63–72 [672]
bottom' 1962 July p 44-50	climate, radiocarbon dating 1972 May p 92–100 [1250]
deer, food supply, hunting, population control 1955 Nov p 101–108	carbon 14 abundance, climate, ice ages, Maunder minimum, solar
badger, dog, horse, cheetah, locomotion, comparative anatomy,	physics, sunspots 1977 May p 80–92 [925]
running, how animals run 1960 May p 148–157	denitrifiers, nitrogen, biological nitrogen fixation, ammonia, nitrifiers,
deer mice, brown fat, altitude adaptation, Quechua Indians,	nitrogen cycle, legumes 1953 Mar p 38-42
acclimatization, hemoglobin, metabolic rate, exercise, human	dense stars, binary stars, supernovae, X-ray binary stars
physiology at high altitude 1970 Feb p 52-62 [1168]	1975 Mar p 24-35
defense, see military	density-gradient, ultracentrifugation, separation techniques
defoliation, bomb craters, cratering, ecological warfare, laterization,	1965 Aug p 70-76
Vietnam war 1972 May p 20-29 [1248]	density-gradient centrifugation, hybrid cells, DNA, RNA, ribosomal
deforestation, forestry, nitrogen fixation, ecosystem, resource	RNA, gene transcription, gene complement, DNA-RNA hybridization experiments 1964 May p 48-56
management, runoff, erosion, watershed, deforestation experiment	hybridization experiments 1964 May p 48-56 dental adhesive, barnacle cement 1968 Aug p 46
1970 Oct p 92–101 [1202]	dental hygiene, effectiveness of fluoridation 1956 Feb p 58
degenerate gas, dwarf stars, gravitational collapse, white dwarfs, binary stars, 'dwng' stars 1959 Jan p 46-53	dental insurance, experimental prepayment plans 1950 Sept p 51
stars, 'dying' stars 1959 Jan p 46-53 degenerative diseases, cortisone, ACTH, inflammation, hormone, stress,	dental research, germ-free environment, immune response, surgical
experience with and appraisal of two hormonal drugs	isolator 1964 July p 78–88
1950 Mar p 30–37 [14]	dentin, teeth, enamel, metabolism, fluoridation 1953 June p 38–42
chronic illness, morbidity, mortality rates, medical care, vital statistics,	dentistry, caries, bacteriology, fluoridation, new theory of tooth decay
life expectancy, infectious disease, causes of death	1948 Oct p 20–23
1973 Sept p 76–84	caries, tooth enamel, bacteriology, causes of tooth decay
immune system, slow virus infection, virus disease, kuru, scrapie,	1957 Dec p 109–116
cancer virus, herpes virus 1974 Feb p 32–40 [1289]	transplanting and re-planting of teeth 1964 Feb p 72
cancer virus, herpes virus degenerative evolution, caves, ecology 1974 Feb p 32–40 [1289] 1955 May p 98–106	caries and periodontitis in buccal ecology 1972 Feb p 42
degrees C, temperature, means Celsius, not Centigrade 1949 May p 26	deoxyribonucleic acid, see DNA
Deimos, Mars, Martian moons, Phobos, Mariner spacecraft missions	depression, blue Monday, morale, not fatigue 1950 Aug p 31
1977 Feb p 30-37 [352]	deprivation dwarfism, ACTH, child development, dwarfism, emotional
delay-Doppler mapping, Doppler effect, planetary motion, radar	deprivation, growth hormone, 'bone age', anorexia nervosa
astronomy, Mercury, Venus, microwaves 1968 July p 28-37	1972 July p 76–82 [1253]
delayed feedback, confusion instant 1951 Feb p 36	depth perception, 'visual cliff', infant, comparative psychology, visual
delinquency, aggression, violence, motion picture film, television,	perception, genesis of depth perception 1960 Apr p 64-71
catharsis, effects of observing filmed violence	vision, learning, visual perception, innate and learned response to
1964 Feb p 35-41 [481]	visual cues 1961 Mar p 138–148
deltas, Mississippi river, meanders, alluvial valley, floods	pattern recognition, visual perception, computer graphics, stereoscopic images, texture discrimination 1965 Feb p 38-48 [318]
1951 Apr p 18–23 'demand-pull', 'cost-push' inflation, economic analysis, inflation, input-	binocular vision, eye, neurophysiology, optic chiasm, stereopsis, visual
output analysis 1971 Nov p 15–21	cortex 1972 Aug p 84–95 [1255]
Democritus, atom, science history 1949 Nov p 48–49	depth reversal, Necker cube, optical illusion, reversing figures, visual
demographic transition, economic development, industrialization,	perception 1971 Dec p 62–71 [540]
urbanization, population control, family planning economic	dermatitis, allergic reaction, autosensitivity, poison ivy, rheumatoid
development and the demographic transition	arthritis, multiple sclerosis, delayed hypersensitivity
1963 Sept p 62-71 [645]	1960 Apr p 129–137
population growth, world population, zero population growth, birth	from brass 1952 May p 42
rate, gross reproduction rate, net reproduction rate, extrapolation	dermatoglyphics, correlation theory, Galton, eugenics, life and work of
from world-statistics population model 1973 Mar p 15-23 [683]	Francis Galton, regression to mean 1954 Jan p 72-76
economic development, human population, population explosion, zero	skin, hair, surface area, skin glands, thermoregulation, structure and
population growth, introduction to single-topic issue on the human	function of human skin 1965 Feb p 56-66 [1003]
population 1974 Sept p 30–39	skin, epidermal ridges, chromosomal anomalies
birth rate, death rate, human population, population-growth history	1969 Dec p 72-84 [1164]
1974 Sept p 40-51 developed countries, human population, birth control, zero population	dermatology, porphyria, pink tooth disease, gene pool, tracking porphyria among Afrikaaners 1957 Mar, p. 133-142
growth 1974 Sept p 108–120	among Afrikaaners 1957 Mar p 133–142 desalination, ion exchange alkali, amino-acid separation
developed countries, progenitive family, human population	1950 Nov p 48–51
1974 Sept p 122–132	distillation, water, ion exchange, solar still, alternative technologies
distribution of wealth, economic development, middle classes,	1957 Mar p 37–45
population growth, production statistics, natural resources	ice crystals isobutane, sea-water freezing, heat of fusion, freezing as
1976 July p 28–35	alternative to distillation 1962 Dec. p. 41-47
economic-level role 1964 June p 56	economic development, industrialization, water supply irrigation
birth control, in China 1973 Nov p 49	water resource management, technology and economics of water in
world statistics 1976 Nov p 67	economic development 1963 Sept p 92–108
demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, population explosion, human	by ion-exchange 1952 Apr p 40
cvolution, historical perspective on human population growth, how	Desargue's theorem, projective geometry, Renaissance paintings,
many ever lived 1960 Sept p 194–204 [608]	Leonardo Durer, Pascal's theorem, mathematics, projective
education US population, labor force age-sex distribution gross	geometry as systematized by Poncelet and Klein 1955 Jan p 80–86
national product, US census more from the US census of 1960	Descartes, Fermat, mathematics history, analytic geometry, conic sections, Euler, mathematics
1962 Oct p 30-37	Cartesian geometry, mathematics, analytic geometry, philosophy, Renc
demyelinating factor, slow virus infection, multiple sclerosis, myelin	Descartes, piography 1959 Oct = 160 172
sheath poliomyclitis latent viruses 1970 July p 40-46	human anatomy, sensory perception, neuropsychology eve and 17th a
dendrites, alloys crisial structure, metal casting, metallurgy, solidification of metal 1974 Dec. p. 88-95	approach to human perception, mechanistic hypothesis
nerve circuits synapse posisynaptic potential olfactory bulb, retina,	1964 May p 108–116 [184]
	P 100-110 [104]

desegregation, public opinion, American Negro, U.S. whites, attitude	acanomia davolan-see i-see
survey, racial segregation, sociology, longitudinal attitude study	conomic development, input-output analysis, developed countries, complementary economic structures of developed and
racial integration, public opinion, attitude survey. U.S. whites	
American Negro, longitudinal attitude study reported in 1956	agricultural production, equatorial rain forests, tropical climate, laterization, lateritic soil 1964 Nov. p. 96-102 (870)
1964 July p. 1623 1623	ll human mutatalan t
racial integration, American Negro, U.S. whites, attitude survey, public	Doverty 1068 Nov n 27-35
opinion, longitudinal attitudes study 1971 Dec. p. 13-19 1673	high sate mentalisment to the sate of the
desert, Mars, polar cap, atmosphere, climate, 'canals', picture from Earth	- 1974 Sent. p. 148–159
bound study 1953 May p. 65-7.	foreign aid, technology transfer, technical assistance, human
Nabataean culture, irrigation, wadi, agricultural system, restoration of	population 1974 Sept. p. 172-182
Nabatacan irrigation works in the Negev 1956 Apr. p. 39-45 desert adaptation, Arctic flora, cold adaptation, paleobotany, Greenland	
flora, adaptations to Arctic climate 1956 Feb. p. 88–98	1976 Sept. p. 40–49
flora, adaptations to Arctic climate 1956 Feb. p. 88-98 comparative psychology, kidney function, salt-water balance,	•
thermoregulation, man:eamel comparison	development 1976 Sept. p. 196-205 food-production increase 1969 Dec. p. 50
1959 Dcc. p. 140-151 [1096]	food-production increase 1969 Dec. p. 50 sex role, U.N. conference on women's role 1975 Sept. p. 53
behavioral adaptation, ground squirrels, Mojave desert, animal	developmental psychology, learning, imprinting, animal behavior, effect of
behavior, kidney function, thermoregulation, desert mammals'	carly life on later learning 1958 Mar. p. 81-90 [416]
adaptations to heat and aridity 1961 Nov. p. 107–116	binocular vision, infant development, visual perception, operant
antelope, thermoregulation, water drinking, evaporation, cland and	conditioning, information processing, space, size, shape perception
oryx, survival without drinking 1969 Jan. p. 88-95	
desert ecology, Joshua trees, mesquite, creosote busiles	animal behavior, homing behavior, kittens, learning, suckling
1955 Apr. p. 68–75 [114]	
trace elements, cobalt, land reclamation, vitamin B12 synthesis,	Devon caves, science history, Neanderthal man, human evolution, stone
agricultural technology, reclamation of infertile Austrialian land 1959 Jan. p. 97-106	tools, idea of man's antiquity 1959 Nov. p. 167-176 Devonian period, evolution, lungfish, air-breathing fishes, fish physiology.
algae, lichens, symbiosis, fungi, polar ecology, symbiotic nature of	conquest of land-breathing organs 1968 Oct. p. 102-111 [1125]
lichens 1959 Oct. p. 144–156 [111]	diabetes, first synthetic insulin 1963 Dec. p. 72
Negev desert, irrigation, agricultural technology, land reclamation,	viral as well as genetic etiology? 1976 Feb. p. 55
Israel, desert reclamation 1960 Mar. p. 54-63	diabetes insipidus, thirst, salt excretion, electrolyte balance,
desert plants, C-4 trait, efficiency, plant breeding	thermoregulation, urine, kidney, physiological psychology,
1973 Oct. p. 80–93 [1281]	osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76
desert pupfish, Death Valley, fish, species isolation, endangered species	1930 Jail. p. 70-70
1971 Nov. p. 104-110 [1236] desert rat, kidney, water balance, oxidation of food, how banner-tailed	dialects, speech, language, American languages, linguistics, changes in U.S. speech 1950 Jan. p. 48-51
kangaroo rat survives without water 1953 July p. 73–78 [1050]	dialysis heart-lung machine kidney machine surgery
detergents, an explanation of their action 1959 July p. 71	1954 Aug. p. 24-21
pollution curbed 1964 Sept. p. 84	enzyme-substrate complex, enzymes, catalysis 1959 Aug. p. 119-125
deterrence, ABM, MIRV, SALT, ICBM, arms race, counterforce	kidney, artificial kidney 1961 July p. 56-64
strategy, dynamics, instability of arms race	diamond, meteorites, Canyon Diablo meteorite, iron-nickel phases, shock hypothesis, asteroids, origin of meteorites 1965 Oct. p. 26-36
1969 Apr. p. 15-25 [642] detaxification, alcohol metabolism, drug inactivation, enzyme, liver	corundum crystal structure cubic boron nitride hardness, materials
function, metabolism of drugs, cirrhosis 1975 June p. 22–31 [1322]	technology, Mohs scale 1974 Aug. P. 62270
deuterium, fusion reactor, nuclear power, magnetic bottle, plasma	plumes, Earth mantle, kimberlite pipes, volcanic eruption, genesis of
confinement, tritium, magnetic pumping, stellerator	kimberlite pipes 1978 Apr. p. 120–132 [551]
1958 Oct. p. 28–35	see also: synthetic diamonds diamond-crystal structure, crystal growth, synthetic diamonds, graphite-
algae, reaction kinetics, metabolism of mammals, penicillin mold, heavy water biology 1960 July p. 106-116	ocystal structure, synthesis at low pressure 1975 Nov. p. 102-107
heavy water biology 1960 July p. 100-116 deuterium abundance, cosmology, 'big bang' theory, 'closed' universe,	Dianetics, validity questioned 1950 Oct. p. 26
'open' universe, universe expansion, age of elements, average density	diapause, biological clock, circadian rhythm, dormancy, insect behavior,
1976 Mar. p. 62–79	insect metabolism, photoperiodicity 1976 Feb. p. 114-121 [1335]
deuterium-hydrogen ratio, 'big bang' theory, deuterium synthesis,	diatoms, biological clock, crabs, marine algae, sand hoppers, tidal-zone organisms, tidal rhythms, integration of biological and sidereal
cosmology, heavy hydrogen, interstellar matter 1974 May p. 108-118	cycles 1975 Feb. p. 70~79 [1316]
deuterium-labeled proteins, ribosome mapping 1976 July p. 65	dichlorodiphenyltrichloroethane, see: DDT
leuterium synthesis, 'big bang' theory, deuterium-hydrogen ratio,	dichroic material, animal navigation, polarized light, Nichol prism,
accomplogy heavy hydrogen interstellar matter	horseshoe crab 1955 July p. 88-94 dichromatism, color blindness, sex linked traits, physiology and
1974 May p. 108–118	psychology of a vision defect 1951 Mar. p. 48–53
developed countries, economic development, input-output analysis.	Dictyostelium, amoebae, social behavior, slime mold, chemotaxis
developing countries, complementary economic structures of developed and underdeveloped countries	communication, spatial orientation 1963 Aug. p. 84–93 [164]
1963 Sept. p. 145–166 [617]	acrasin, amocbae, adrenalin, social amoebae, slime mold, cyclic AMP 1969 June p 78-91
to a security of human population, birth control, zero	slime mold, acrasin as 'social hormone' 1968 Oct. p. 60
1974 Sept. p. 100-120	Dietyostelium acrasin, amoebae, social amoebae, slime mold, role of
progenitive family, human population, demographic transition 1974 Sept. p. 122–132	acrasin in cell aggregation 1949 June p. 44-4/
- L. Luman population women's status	Dictyostelium cell aggregation, amoehac, cell differentiation, social amoebac, slime mold, acrasin 1959 Dec. p. 152-162
	Dicumarol, blood clotting, anticoagulant therapy, thrombus
developing countries, Amazon, tropical rain forest, resource prospecting,	1951 Mar. p. 18–21
economic planning, forest findingentern, manufacture 1948 May p. 11–14	die extrusion, hydrostatic pressure 1969 Oct. p. 49
power, the Amazon frontier power, the Amazon frontier power, the Amazon frontier	dieldrin, agricultural pest, fire ants, pest control, insecticide 1958 Mar. p. 36-41
economic development, technical assistance, industries food	not a policy of the second state of the second seco
A salibusian docume, room	budrocarbons, DDT, avian reproduction, insecucide, lood chain,
birth control, population growth, Mathematical production, Julian Huxley on world population growth 1956 Mar. p. 64-76 [616]	ecological effect of pesticides 1970 Apr. p. 72–78 [1174]

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dielectric mirrors, coated optics, optical interference coatings, light	communication technology, pulse-code modulation, binary arithmetic,
reflection, light transmission, laser, interferometry	television, transmission quality, telephone, AM, FM
1970 Dec p 58–75	1968 Mar p 102–108
dielectric pump, separation of nonconductive liquids 1956 July p 52	diode laser, fiber optics, glass fiber cables, light-emitting diode, light-
Diesel engine, Carnot cycle, isothermal combustion, automobile engines,	wave communication, pulse-code modulation, lightwave telephone 1977 Aug p 40-48 [373]
Diesel's 'rational' engine 1969 Aug p 108-117	
diet, kwashiorkor, malnutrition, food supply, human nutrition	communication technology, microelectronics, telecommunication
1954 Dec p 46–50	1977 Sept p 192-209 [382]
fat metabolism, tissue, hormone, obesity, fat tissue, role of fat	digitalis, foxglove, heart physiology, dropsy, digitoxin, cardiac
metabolism in human physiology 1959 Dcc p 70–76	insufficiency, history of digitalis 1965 June p 110–119
atherosclerosis, cardiovascular disease, human nutrition, arteries,	neural effects 1975 Dec p 54
epidemiology, cholesterol, coronary occlusion, lipids, plaque, artery	digitonin, mutotic spindle, sea urching egg, chromosome, centroles
wall 1966 Aug p 48–56	1953 Aug p 53–63
fasting, human nutrition, metabolism, starvation, kwashiorkor,	digitoxin, digitalis, foxglove, heart physiology, dropsy, cardiac
marasmus, physiology of starvation 1971 Oct p 14-21 [1232]	insufficiency, history of digitalis 1965 June p 110–119
coprolites, human feces, human nutrition, prehistoric man	digits, Benford's Law, probability, number theory, first-digit distribution
1975 Jan p 100-109 [687]	1969 Dec p 109-120
dietary requirements, amino-acid deficiencies, human nutrition,	dikes, ocean floor, sea-floor spreading, lava, magnetic bands, mid-ocean
metabolism, food and agriculture 1976 Sept p 50-64	ridge, the deep-ocean floor 1969 Sept p 126-142 [883]
difference engine, Babbage, computer, analytical engine, digital	dingo, aborigine, stone tools, Paleolithic man, Tasmanian devil,
computer, life and work of Charles Babbage 1952 Apr p 66-72	Australian aborigine, antiquity of man in Australia
differential topology, mathematics, topology, sphere, torus, everted sphere	1966 Mar p 84-93 [628]
proof 1966 May p 112–120	Dinoflagellata, algal bloom, marine ecology, acetylcholine, nerve poisons,
diffraction, electron, wave-particle duality, interference fringes, electron	poisonous tide 1958 Aug p 92–98
diffraction, Davisson-Germer experiment 1948 May p 50-53	dinosaur agility 1968 July p 55
atomic microscope, X-ray diffraction 1951 July p 56–57	dinosaurs, reptile, mammalian evolution, paleontology, therapsids,
light, wave-particle duality, optics, interference, electromagnetic waves,	ichthyosaurs, evolution, origin of mammals 1949 Mar p 40-43
photon emission, introduction to single-topic issue on light	birds, ectothermy, endothermy, metabolism, birds descended from
1968 Sept p 50–59	dinosaurs 1975 Apr p 58–78 [916]
gemstones, grain structure, opal colors, periodic structures, silica-	Triassic brownstone 1969 Oct p 50
sphere packing 1976 Apr p 84–95	sauropod habitat 1971 Mar p 48
diffraction grating, spectroscopy, ruling engine, Strong engine, Rowland engine, the ultimate machine 1952 June p 45-54	diode, solid state physics, transistor, vacuum tube, electronics, germanium, triode, dawn of solid-state electronics
engine, the ultimate machine 1952 June p 45-54 spectroscopy, Fraunhofer lines, prism, light, Fourier analysis, Girard	1948 Sept p 52–55
	radio, triode, De Forest, vacuum tube, Marconi, Fleming valve,
grid, interferometry 1968 Sept p 72-82 more and better from Johns Hopkins 1950 May p 28	rectification, De Forest's 1906 contributions 1965 Mar p 92–100
diffusion, crystal structure, metallurgy, wandering of atoms in crystal	rectification, radio, thermionic tube, Fleming, electron tube, history of
lattice 1957 May p 103–110	science, England, Edison, lamps, Deforest 1969 Mar p 104-112
alloys, metalliding materials technology, surface alloy, molten fluoride,	light-emitting 1962 Sept p 102
electrolysis 1969 Aug p 38–46	diode detector, P-N junction diode technology 1960 Apr p 88
heat, solid state physics, thermal waves, second sound, cryogenics,	diode junction laser, Raman laser effect, gas laser, solid-state lasers, laser
wave propagation, phonon, helium, thermal waves in solid helium	technology in rapid development 1963 July p 34-45 [294]
1970 May p 92-101	diode laser, carrier-wave generator, communication technology, crystal
digestion, enzymes, catalysis, respiration, fermentation, lock-and-key	structure, laser, heterostructure lasers, light-emitting semiconductor,
theory, science history 1948 Dec p 28–39	solid-state electronics 1971 July p 32-40
hydrochloric acid, alcohol, aspirin, stomach mucosa, self-digestion	digital transmission, fiber optics, glass fiber cables, light-emitting
safeguards 1972 Jan p 86-93 [1240]	diode, light-wave communication, pulse-code modulation lightwave
digestive enzymes, carnivorous plants, active trapper, passive trapper,	telcphone 1977 Aug p 40-48 [373]
natural history 1978 Feb p 104–155 [1382]	Diophantine equations, Chinese remainder theory, computability theory,
digger wasp, tarantula, symbiosis, predator-prey relationship	Hilbert program, mathematics 1973 Nov p 84-91
1952 Aug p 20–23	diphtheria antito in, diphtheria toxin, toxicity, diphtheria toxoid,
digit recall, short-term memory, long-term memory, memory,	cytochrome antagonist 1952 Oct p 32–36
tachistoscope 1966 July p 90–95 [499] digital computer, computer technology, analogue computer, relay	diphtheria toxin, toxicity, diphtheria toxoid, diphtheria antitoxin,
computers, binary arithmetic, logic, automatic control, computer	cytochrome antagonist 1952 Oct p 32–36
memory, control systems, status of 'mathematical machines'	diphtheria toxoid, diphtheria toxin, toxicity, diphtheria antitoxin,
1949 Apr p 28–39	cytochrome antagonist 1952 Oct p 32-36 direct-reduction processes, iron ore, iron melting, sponge iron, steel
Babbage, computer, difference engine, analytical engine, life and work	
of Charles Babbage 1952 Apr p 66–72	production 1976 July p 68–80 directional orientation, insect behavior, social insect, animal
computer, automatic control, solid-state electronics, analog-to digital	communication, bee dances, 'language of the bees'
conversion, analogue computer, the universal machine	1948 Aug p 18–21 [21]
1952 Sept p 116-130	deafness ear, hearing cochlea 1957 Aug p 66-78 [44]
electronic typesetting, printing, photographic typesetting, mechanical	auditory perception, hearing, auditory localization, binaural hearing
composition, cathode-ray tube, computer applications	
1969 May p 60–69	1961 Oct p 132–142 (501)
	1961 Oct p 132–142 [501] bee dances, insect behavior, species specificity, evolution.
charge-coupled devices, magnetic bubble memories, moving-surface	bee dances, insect behavior, species specificity, evolution, communication by sound, by dancing 1967 Apr. p. 96-104 [1071]
memories, semiconductor memories, nucroelectronics	bee dances, insect behavior, species specificity, evolution, communication by sound, by dancing 1967 Apr p 96-104 [1071] Antarctica, seal, breathing, breathing holes in ice
memories, semiconductor memories, nucroelectronics 1977 Sept. p. 130–145 [378]	bee dances, insect behavior, species specificity, evolution. communication by sound, by dancing 1967 Apr p 96–104 [1071] Antarctica, seal, breathing, breathing holes in ice
memories, semiconductor memories, nucroelectronics 1977 Sept p 130–145 [378] digital storage media, information theory, statistics thermodynamics.	1961 Oct p 132–142 [501] bee dances, insect behavior, species specificity, evolution, communication by sound, by dancing 1967 Apr p 96–104 [1071] Antarctica, seal, breathing, breathing holes in ice 1969 Aug p 100–106 [1156] disaster psychology, life over property
memories, semiconductor memories, microelectronics 1977 Sept p 130–145 [378] digital storage media, information theory, statistics thermodynamics, noise, redundancy, analogue storage media information compression, automatic control, information 1952 Sept p 132–148	l961 Oct p 132–142 [501] bee dances, insect behavior, species specificity, evolution. communication by sound, by dancing l967 Apr p 96–104 [1071] Antarctica, seal, breathing, breathing holes in ice l969 Aug p 100–106 [1156] disaster psychology, life over property l952 Mar p 44 disciplinary distribution, science manpower, labor force, employment by
memories, semiconductor memories, microelectronics 1977 Sept p 130–145 [378] digital storage media, information theory, statistics thermodynamics, noise, redundancy, analogue storage media information compression, automatic control, information 1952 Sept p 132–148 digital-to-analogue conversion, automatic control, machine tool, batch	bee dances, insect behavior, species specificity, evolution, communication by sound, by dancing 1967 Apr p 96–104 [1071] Antarctica, seal, breathing, breathing holes in ice 1969 Aug p 100–106 [1156] disaster psychology, life over property 1952 Mar p 44 disciplinary distribution, science manpower, labor force, employment by sector
memories, semiconductor memories, nucroelectronics 1977 Sept p 130–145 [378] digital storage media, information theory, statistics thermodynamics, noise, redundancy, analogue storage media information	bee dances, insect behavior, species specificity, evolution. communication by sound, by dancing 1967 Apr p 96–104 [1071] Antarctica, seal, breathing, breathing holes in ice 1969 Aug p 100–106 [1156] disaster psychology, life over property 1952 Mar p 44 disciplinary distribution, science manpower, labor force, employment by sector 1951 Sept p 71–76 disclinations, atomic structure, crystal structure, dislocations, molecular
memories, semiconductor memories, microelectronics 1977 Sept p 130–145 [378] digital storage media, information theory, statistics thermodynamics, noise, redundancy, analogue storage media information compression, automatic control, information 1952 Sept p 132–148 digital-to-analogue conversion, automatic control, machine tool, batch process, numerical instructions, automatic machine tool 1952 Sept p 101–114	l961 Oct p 132–142 [501] bee dances, insect behavior, species specificity, evolution. communication by sound, by dancing 1967 Apr p 96–104 [1071] Antarctica, seal, breathing, breathing holes in ice 1969 Aug p 100–106 [1156] disaster psychology, life over property 1952 Mar p 44 disciplinary distribution, science manpower, labor force, employment by sector 1951 Sept p 71–76 disclinations, atomic structure, crystal structure, dislocations, molecular structure, periodic structures 1977 Dec. p. 120–146 [1071]
memories, semiconductor memories, microelectronics 1977 Sept p 130–145 [378] digital storage media, information theory, statistics thermodynamics, noise, redundancy, analogue storage media information compression, automatic control, information 1952 Sept p 132–148 digital-to-analogue conversion, automatic control, machine tool, batch process, numerical instructions, automatic machine tool 1952 Sept p 101–114 digital transmission, artificial satellite, communication	lee dances, insect behavior, species specificity, evolution, communication by sound, by dancing left Apr p 96-104 [1071] Antarctica, seal, breathing, breathing holes in ice 1969 Aug p 100-106 [1156] disaster psychology, life over property less less less less less less less les
memories, semiconductor memories, microelectronics 1977 Sept p 130–145 [378] digital storage media, information theory, statistics thermodynamics, noise, redundancy, analogue storage media information compression, automatic control, information 1952 Sept p 132–148 digital-to-analogue conversion, automatic control, machine tool, batch process, numerical instructions, automatic machine tool 1952 Sept p 101–114	l961 Oct p 132–142 [501] bee dances, insect behavior, species specificity, evolution. communication by sound, by dancing 1967 Apr p 96–104 [1071] Antarctica, seal, breathing, breathing holes in ice 1969 Aug p 100–106 [1156] disaster psychology, life over property 1952 Mar p 44 disciplinary distribution, science manpower, labor force, employment by sector 1951 Sept p 71–76 disclinations, atomic structure, crystal structure, dislocations, molecular structure, periodic structures 1977 Dec. p. 120–146 [1071]

'master switch of life'

discrimination, social discrimination, group behavior, child development, diving bradycardia, asphyxia, breathing, respiratory gas exchange, diving 'in vs out' group discrimination 1970 Nov p 96-102 [530] mammals, diving birds, hibernation, oxygen storage, selective disease, morbidity, archeology, surgery, record of illness among the ischemia, human physiology, redistribution of oxygenated blood and ancients 1949 Jan p 52-55 'master switch of life' 1963 Dec p 92-106 eholera, plague, yellow fever, epidemiology 1953 Гев р 22-27 diving mammals, asphyxia, breathing, diving bradycardia, respirator, gas bacterial toxin, cholera, medical care, sanitation, water supply, exchange, diving birds, hibernation, oxygen storage, selective epidemiology 1971 Aug p 15-21 ischeniia, human physiology, redistribution of oxygenated blood and birth control, celibacy, foundling institutions, infanticide, Malthusian 'master switch of life' 1963 Dec p 92-106 doctrine, marriage age, population growth, population control in diving physiology, whale, breathing 1949 July p 52-55 Europe 1750-1850 1972 Fcb p 92-99 [674] diving reflex, observed in man 1977 Aug p 57 antigen variation, medical history, influenza virus, encephalitis, diving women, Ama, diving, Korea, Japan, breathing, human physiology pandemics, virus disease, animal vectors, Hong Kong flu, swine flu basal metabolism, adaptation 1967 May p 34-43 1977 Dec p 88-106 [1375] divorce, adolescence, family, alienation, racial discrimination, poverty, disease etiology, aging, death rate, life expectancy, male female life infant mortality, erime, suicide, drug addiction, changes in American expectancy 1958 Feb p 22-27 family structure 1974 Aug p 53-61 [561] disease-resistant plants, plant breeding, agronomy, plant disease, fungal DNA: deoxymbonucleic acid infection, plant pathogens, sugareane, mechanism of discase DNA, heredity, chromosome, RNA, nucleoproteins, protein synthesis, resistance in plants 1975 Jan p 80-88 [1313] 1953 Feb p 47-57 [28] DNA identified as agent of heredity disease vector, bacteria, flies, epidemiology, maggot, dysentery, virology bacteriophage, genetics, reproduction, tracer experiments, protein cont 1965 July p 92-99 1953 May p 36-39 dislocations, crystal structure, edge dislocation, soap bubbles, slip planes double helix, X-ray crystallography, genetic code, structure of DNA 1955 July p 80-87 [204] resolved 1954 Oct p 54-61 [5] crystal structure, metals, whiskers, fiber-reinforced, matrix, composite virus structure, protein 'overcoat' 1954 Dec p 62-70 [32] materials, two-phase materials 1965 Feb p 28-37 genetic code, codon, amino-acid pairing, RNA, Gamow proposes corrosion tunnel, stress-corrosion failure, crystal structure, metalliding 1955 Oct p 70-78 triplet codon 1966 Feb p 72-81 bacteria, protein synthesis, genetic code, RNA, protein synthesis by alloys, materials technology, metals, crystal structure, grain boundaries, 1956 Mar p 42-46 bacterial DNA-RNA in vitro lattice defects, electron 'gas', nature of metals 1967 Sept p 90-100 RNA, genetic code, chromosome, protein synthesis, polymers, crystal structure, forging, metal forming, strain hardening, creep in 1957 Sept p 188-200 [54] molecular genetics as of mid-1957 1975 Apr p 116-125 RNA, protein synthesis, recognition of RNA as transcriber of DNA metals 1959 Dec p 55-61 atomic structure, crystal structure, disclinations, molecular structure, periodic structures 1977 Dec p 130-145 [393] cell nucleus, cytoplasm, cell organelle, chromosome, cell physiology. RNA, endoplasmic reticulum, cytology, nuclear control of cell disoriented figures, form perception, retinal orientation, visual perception 1960 Jan p 126-136 1974 Jan p 78-85 [557] ribosome, protein synthesis, mRNA, tRNA, nucleus, chromosome, dispersion-strengthened composites, cermets, composite materials, fiber-1961 Sept p 74-82 [92] 1973 July p 36-44 reinforced composites, particulates cytology, how cells make molecules gene mapping, chromosome, bacteriophage, mapping genes by induced displacement activity, stickleback, courtship display, animal behavior, 1962 Jan p 70-84 [120] and spontaneous mutations sexual behavior, ethology 1952 Dec p 22~26 [414] courtship display, gulls, animal behavior, releaser stimulus, ethology phage X174, gene mutation, single-stranded DNA 1962 July p 109-116 [128] 1954 Nov p 42-46 genetic code, base triplets, protein synthesis, nucleotide sequence, displacer, cryogenic technology, Stirling cycle, refrigeration, hot-air 1962 Oct p 66-74 [123] engine, closed cycle 1965 Apr p 119-127 codon, base triplet established as codon antibody production, thymus, immunology, lymphocytes, autoimmune display devices, liquid crystals, dynamic scattering, storage mode, 1970 Apr p 100-106 disease, thymus role in producing antibodies television receiver 1962 Nov p 50-57 [138] dissociated cells, embryonic development, tissue culture, tissue ultraviolet radiation, mutation, effects of ultraviolet on weakest links in differentiation, reassembly of dissociated tissue cells 1962 Dec p 135-144 [143] 1959 May p 132-144 chain mRNA, tRNA, genetic code, ribosome, protein synthesis, genetic code dissolved oxygen, limnology, pond life, plankton, thermocline, 1963 Mar p 80-94 [153] hypolimnion, oxidation-reduction balance in depths of a pond elucidated, amino acid 'dictionary' polyribosomes protein synthesis, RNA, ribosome 1963 Dec p 44-53 1951 Oct p 68-72 chromosome puffs, insect chromosome, RNA synthesis, hormonal distance perception, visual perception, 'Ames room', motion perception, 1964 Apr p 50-58 [180] optical illusion, size perception, illusions as clues to organization of induction, gene regulation hybrid cells, RNA, ribosomal RNA, gene transcription, gene 1951 Aug p 50-55 perception complement, density-gradient centrifugation, DNA-RNA distillation, water, desalination, ion exchange, solar still, alternative 1964 May p 48-56 hybridization experiments 1957 Mar p 37-45 technologies antibiotics, protein synthesis, streptomycin, genetic code, ribosome distortion, visual perception, optical illusion, size constancy, pictures as RNA, mutation, 'misreadings' induced by antibiotic alterations of objects, illusions arise from normally useful mechanisms 1966 Apr p 102-109 ribosomes 1968 Nov p 66-76 [517] mathematical model, computer modeling giant molecules, cytochrome distributed-processing networks, computer technology, microelectronics helix, myoglobin, hemoglobin, molecular modeling 1977 Sept p 162-177 [380] 1966 June p 42-52 [1043] distribution coefficient, materials technology, zone refining, zone melting, amino acids protein synthesis, genetic code, mutation molecular 1967 Dec p 62-72 germanium, silicon, single crystals purified biology, triplets, RNA anticodon, ribosomes, triplets wobble distribution of wealth, economic development, middle classes, population 1966 Oct p 55-62 [1052] growth, production statistics, natural resources, demographic bacteriophage, virus structure, T4 virus, mutation morphogenesis test-1976 July p 28-35 tube reconstruction of viral components transition 1967 July p 60-74 [1079] diving, continental shelf exploitation, saturation diving, underwater leukocyte, nucleus Miescher, spermatozoon nucleus, chromatin, shelters, decompression, oceanographic exploration 1968 June p 78-88 [1109] hereditary material, discovery of DNA 1966 Mar p 24-33 [1036] chloroplast, mitocliondria, symbiosis cell organelle, prokaryote origin Ama, diving women, Korea, Japan, breathing, human physiology, basal protein synthesis, plastids, cell evolution, extra-nuclear genetic 1967 May p 34-43 metabolism, adaptation activity in cell 1970 Nov p 22-29 [1203] 1967 Aug p 44 gene mutation, RNA-DNA 'reverse' transfer, cancer virus, DNA prolonged underwater work 1971 Oct p 44 polymerase, RNA-directed DNA polymerase depth limit 1975 Oct p 53 1972 Jan p 24-33 [1239] diving birds, asphyxia, breathing diving bradycardia, respiratory gas cell nucleus chromatin, chromosomal proteins gene regulation, exchange, diving mammals, hibernation, oxygen storage, selective histories nucleoproteins oxidative phosphorylation ischemia, human physiology, redistribution of oxygenated blood and 1975 Fcb p 46-57 [1315]

genetic code poliomyelitis virus, protein synthesis,	RNA, virus	malpractice insurance, medical care, medical	
multiplication, virus structure	1975 May p 24–31	doctorates, intellectual resources of U S, colleg	1976 Aug p 18-23
E coli, gene structure, nucleotide sequence, viral I	NA, bacterial virus	doctorates, intellectual resources of O.S., coneg	1951 Sept p 42–46
	Dec p 54-67 [1374]	Dodgson, mathematics, logic, Carroll, 'Alice in	
constant in tissue cells, half as much in egg and spe	erm cells	Carroll (Charles Lutwidge Dodgson), biog	
	1949 Mar p 25	Carroll (Charles Lutwidge Dodgson), blog	1956 Apr p 116–128
assembled in vitro	1956 Sept p 114	symbolic logic, barber paradox, mathematics	
two-part molecular structure	1958 Apr p 50	symbolic logic, barber paradox, mamematics	1972 July p 38–46
synthesis of DNA outside living cell	1958 Nov p 54	1. I - I - I - I have shortely languages of days	
activation of DNA by negative electric charges	1958 Dec p 64	dog, badger, horse, cheetah locomotion, deer, o	1960 May p 148–157
mutation mechanism	1961 Apr p 82	running, how animals run	
mRNA, synthesis of RNA	1961 Aug. p 62	cooling by panting	1970 Nov p 46
breaking the code	1962 Mar p 68	oldest known fossil	1975 Dec p 50
universality of code	1962 July p 76	dolorimeter, pain, what is pain?	1953 Mar p 59–66
template for all the RNA's	1963 Mar p 76	dolphin, gas exchange in deep diving	1970 Mar p 64
how double helix untwists	1963 July p 69	domed roof, air conditioning, air vent, wind to	
genetic code, codon has three nucleotides	1964 Mar p 54	system, passive cooling systems in Iranian	
0X174 DNA synthesized	1968 Feb p 51		1978 Feb p 144–154 [705]
histone-chromatin scaffold	1975 July p 46	domes, hot spots island arcs, plate tectonics, or	
phase-shift reading	1977 May p 50	volcanoes	1976 Aug p 46–57 [920]
DNA-actinomy cin binding, antibiotics, actinomycin,	mRNA inhibition,	domestic animals, Macedonia, Nea Nikomeden	
	Aug p 82–91 [1303]	figurines, agricultural society, oldest Neoli	
DNA fractionation, gene isolation, ribosome, ribosome		and the second transfer and a second transfer	1965 Apr p 82–92
B	Aug p 20–29 [1278]	water buffalo, animal husbandry, agricultura	
DNA from RNA, RNA-directed DNA polymerase	1970 Sept p 82		967 Dec p 118–125 [1088]
'central dogma' restated	1970 Nov p 44	donkeys, animal husbandry, mules, horse, gene	
DNA operator, DNA repressor, gene expression, gen			970 Dec p 102–109 [1208]
restriction endonuclease, operator-repressor sy		dopamine, acetylcholine, adrenalin, catecholan	
	6 Jan p 64-76 [1333]	physiology, neurotransmitters, noradrenal	
DNA polymerase, DNA synthesis, virus - X 174, ce	II-iree system,	have forester as the AMD and come contact	1974 June p 58–71 [1297]
activated nucleoudes, first test-tube synthesis of		brain function, cyclic AMP, endocrine system	
	8 Oct p 64-78 [1124]	nervous system neurotransmitters, L-DOI	
DNA, gene mutation, RNA-DNA 'reverse' transi		disease, 'second messengers', brain endocr	
	2 Jan p 24–33 [1239]		977 Aug p 108–119 [1368]
DNA R-factor, bacteria, drug resistance, mutation	antibiotics,	'doping', junction transistor, germanium crysta	
transferable drug resistance, multiple resistance	740 mans DNA mans	materials technology, solid state physics on	1952 July p 28–32
DNA recombination, adenoviruses, cancer virus, SV		materials technology, solid state physics, cry	
gene transformation, tumor-virus antigen, viru		growth, surface chemistry, precipitation in	
DNA served serverate as alution concerns size CDA	1966 Mar p 34–41	properties of materials Doppler effect, Mossbauer effect, relativity the	1967 Sept p 210–220
DNA repeat segments, evolution, genome size, sDN	0 Apr p 24–31 [1173]	resonance absorption general relativity the	
hybridization 197 DNA replication, chromosome replication, chroma		resonance absorption general relativity to	1960 Apr p 72–80 [271]
	958 June p 36–42 [60]	solar system, astronomical unit, space explor	
ultraviolet radiation, mutation rate, radiation da		radar, Earth Sun distance more precisely i	
repair of DNA	1967 Feb p 36–43	radar, Earth Sun distance more precisery i	1961 Apr p 64-72
aging, fibroblasts mitosis cell culture, somatic c		stellar rotation, stellar evolution, spectroscop	ny vrolet shift red shift
	8 Mar p 32–37 [1103]	correlation of rotational velocity with mas	
'Okazakı fragments'	1968 Aug p 43	hydroxyl radical, microwaves, galaxy, radio-	absorption gas clouds
DNA repressor, DNA operator, gene expression, g			1965 July p 26–33
restriction endonuclease, operator-repressor s		planetary motion radar astronomy, delay-D	onnier manning Mercury
19	76 Jan p 64-76 [1333]	Venus, microwaves	1968 July p 28–37
DNA-RNA hybridization, DNA repeat segments, e	volution, genome size,	spectroscopy, red shift, quasars, shell hypoth	esis, radio source
	70 Apr p 24-31 [1173]	absorption lines clue to quasar structure	1970 Dec p 22-29
DNA sequence, bacteria, proteolysis, infection, vir		energy levels, gas laser, laser spectroscopy, sp	pectroscopy
enzymes bacterial recognition and rejection of	f exotic DNA		1973 Dec p 69-85
	0 Jan p 88–102 [1167]	Doppler shift, interstellar gas, magnetic field, ra	adio 'photographs',
DNA structure, protein structure, amino-acid sequ		structured in shells and filaments rather th	
colinearity, mutation, gene mapping, base 19			1978 Јап р 74-84 [394]
DNA synthesis, autoradiography, bacterial chrome		dormancy, adaptation germination seed dispe	rsal 1959 Apr p 75-84
thymine, incorporation in DNA chain, relation		biological clock, circadian rhythm, diapause,	insect behavior, insect
chain 19 virus ~ X 174, cell free system, DNA polymeras	66 Jan p 36-44 [1030]	metabolism photoperiodicity 19	976 Feb p 114-121 [1335]
		dormin, auxins, plant growth, cytokinins, plant	
first test-tube synthesis of biologically active		December 16 A second of the second	1968 July p 7581 [1111]
lac operator, recombinant DNA	68 Oct p 64-78 [1124] 1977 Jan p 47	Dorset culture, Arctic, Stone Age hunters, Alas	
DNA transcription, electron microscopy, gene acti	on visualized	circumpolar Stone Age culture village in Alaska	1954 June p 82–88
	73 Mar p 34-42 [1267]	desirate career there a contains V 1	1954 Sept p 78
process of RNA synthesis	1962 Feb p 76	dosimetry, cancer therapy, isotopes, X-ray, rad radiation roentgenology, nuclear medicin	iotherapy, ionizing
'split' genes	1978 Feb p 76	medicine	e, radiation use in
DNA virus, adenoviruses, cancer virus SV40 virus	s, DNA recombination.	double bind, schizophrenia emotional illness, p	1959 Sept p 164-176
genc transformation tumor-virus antigen vii	rus ettology of cancer	psychosis neurosis, taxonomy of emotions	al illness family at
	1966 Mar p 34-41		1962 Aug - 65 74 14601
Doctor of Philosophy, see Ph D		double helix, DNA, X-ray crystallography, gen	etic code structura of
doctor-patient relations, medical care, medical jar	gon 1972 Aug p 66-74	DNA resolved	1954 Oct = 54 C1 I51
medical care informed consent medical ethics		chromosome replication DNA replication, o	hromatid, micromechanics
	1974 Nov p 17-23	or reproduction	1958 June p 36–42 [60]
		double stars, see binary stars	F 20 42 f00]

Douglass, dendrochronology, course bear-	APP		
Douglass, dendrochronology, science history clock	, A E Douglass and tree-rin	g methadone guidelines	1970 July p 50
Down's syndrome, epidemiology, stress, anox	1952 Jan p 54–5	-y	1973 Oct p 50
chology of Down's syndronic	1952 Feb n 60-6	heroin epidemiology	1975 Feb p 41
chromosomal anomalies, Klinefelter's sync	frome, trisoms 21 genetic	6 cocaine, addiction fashionable drug-effectiveness, evaluation	1977 Nov p 75
detect, meiosis, mitosis, gene translocation	on, nondistunction.	drug effects, chemotherapy, liver function, pl	1966 Aug p 42
afflictions associated with abnormal clin	omosome complement	normone, antibiotics, medical care, herb	natmacology, vaccine,
loul emin loul oct to con discount	1961 Nov p 66-76 [150)]	1973 Sept p 102-112
lcukemia, lcukocyte, cancer, cliemotherapy origin and treatment of lymphocytic and	, virus, ionizing radiation,	acetylcholine, adrenalin, catecholamines, d	lopamine, nerve physiology,
origin and treatment of tymphocytic and		neurotransmitters, noradrenaline	1974 June p 58-71 (1297)
amniocentesis, enzyme deficiency, genetic	1964 May p 88–96 disease prepatal genetic	a decide included in the control in	fication, enzyme, liver
diagnosis, hemophilia, Tay-Sachs discuso	c. chromosomal anomalies	function, metabolism of drugs, cirrhosis drug-induced imagery, central nervous system	19/5 June p 22-31 [1322]
	1971 Nov p 34-42 [1234]	illusions, perceptual-release theory	1, Harrich attori, perceptual 1977 Oct p 132–140 [579]
partial trisomy	1965 July p 48		rostheses. FDA. medical
fertilization delay	1968 Apr p 50	care, medical economics, drug research, r	medical laboratory services
drainage, chinampa, canals, Mexican agriculti	ure, agricultural system,		1973 Sept p 161-166
Aztec civilization, highly productive farm		FDA wants physician's OK for refills	1949 Aug p 25
drainage patterns, climatic change, water erosi	1964 July p 90-98 [648]	drug research, cancer, tissue culture, clone, sor uses of tissue culture	matic cells, technique and 1956 Oct p 50-55
g parties of the same of the s	1967 Apr p 84–94		
dreams, psychoanalysis, Freud	1949 May p 44-47 [495]		
content analysis, 10,000 dreams	1951 May p 60-63		1973 Sept p 161-166
sleep, electroencephalography, REM sleep,		drug resistance, bacteria, gene transformation,	streptomycin,
along good of along an analysis of the state of	1960 Nov p 82-88 [460]	pneumococcus, recombinant DNA, bioch	emistry of Avery, McLeod
sleep research, electroencephalography, retu waves, paradoxical sleep, REM sleep, cat	cular formation, brain	and McCarty experiment	1956 Nov p 48-53 [18] 1961 Mar p 66-71
waves, paradoxical sleep, Right sleep, cat	1967 Feb p 62–72 [504]	mutation, penicillin, bacteriology bacteria, mutation, DNA R-factor, antibiotic	
drilling platforms, marine technology, ocean, s	upertankers, submersibles.	resistance, multiple resistance	1967 Dec p 19-27
containerization, technology and the ocea	n	antibiotic resistance, bacteria, infectious dise	
	1969 Sept p 198-217 [887]	plasmids, Rh factor, bacterial conjugation	10.07.012601
drip irrigation, irrigation, trickle irrigation, agr			1973 Apr p 18-27 [1269]
draplet levitation technique, courteurs, leur de	1977 Nov p 62–68 [1371]	drug therapy, fatty acids, feedback, hormone-lik system, prostaglandin	1971 Nov p 84-92 [1235]
droplet-levitation technique, cavitation, liquids concept, tensile strength, surface tension	1972 Dec p 58-71	drugs, tuberculosis, facilitate surgery	1954 Sept p 80
dropsy, digitalis, foxglove, heart physiology, di		Druid holiday, Halloween, anthropology	1951 Oct p 62-66
insufficiency, history of digitalis	1965 June p 110-119	drums, African drum language, communication,	gong language, talking
Drosophila, population genetics, evolution, E	coli, mutation, sexual	drums	1971 Dec p 30-34
recombination, speciation, natural selection	on, genetic basis of	drunkeness, alcoholism, metabolism, physiologic conditions effect of alcohol	1948 Dec p 50-53
evolution drought, dust storms, dry-land farming, soil rec	1950 Jan p 32–41 [6]	dry ice, weather control, cloud seeding, silver ice	fide. Project Cirrus,
technology, mulch, shelter belts, U.S. High		condensation nuclei	1952 Jan p 1/-21
-	1948 Aug p 7–11	dry ice fogs, Mars, Martian atmosphere, dust sto	rms, wind erosion,
drug abuse, metabolism, alcohol tolerance, liver	function, acetaldehyde	Mariner voyages	1977 July p 34-43
G	1953 Dec p 86–90	dry-land farming, dust storms, drought, soil reclain technology, mulch, shelter belts, U.S. High I	Plains 1948
Cannabis sativa, marijuana, consciousness, p	1969 Dec p 17-25 [524]	toomorogy, maton, sheller beta, o b xiigii x	1948 Aug p 7-11
drug action, spider webs, animal behavior, abno	rmal behavior	dust storms, Great Plains, marginal farmlands,	wind eroston.
•	1954 Dec p 80-86	agricultural technology	1954 July p 25-29
chelation, hemochromatosis, lead poisoning,	pharmacology, Wilson's	dual-resonance model, high-energy physics, hadro quark, strong interactions	1975 Feb p 61-67
disease, metal poisoning, heavy metal poiso salicylates, aspirin, cancer therapy, chemot	herany medical	Dublin Institute for Advanced Study, high-energy	physics, report on a visit
exploitation of chelates	1966 May p 40-50	by Leopold Infeld	1949 Oct p 11-13
analgesics, morphine, opium, poppy, heroin, o	odeine, Bentley's	duck-billed platypus, lactogenesis, isotope tracing,	milk, mammal, 1957 Oct p 121–128
compound search for strong safe analgesic		synthesis of milk ducks, animal behavior, imprinting, auditory inter-	
19	66 Nov p 131–136 [304]	19	972 Aug p 24-31 [546]
brain function, drug addiction, endodorphins, opiates, opiate receptors, brain endocrinolo	gy 1977 Mar p 44-56	duckweed, leaf shape, aging, systematic study of fa	miliar amateur
3	1974 July p 47	observation	1949 Oct p 22-24
ing addiction, narcotics, withdrawal syndrome,	rats and monkeys,	ducted fan, gas turbine, aircraft propulsion, centrife flow compressor, electric power generation	1953 Nov p 65-72
1 4 alf importion	1904 Wal D 70-32 [110]	ductility, materials technology, sieel, iransformation	n-induced plasticity,
alkaloids, hallucinogens, mental health, consci psychosis, psilocybin, mescaline, effects of L		strength	1968 Nov p 36-43
• •	1904 MUL P 47-21 1 1911	ductus arteriosus, cardiology, Fallot teiralogy, cardi	1950 Jan p 14-17
morphine, opiate-directed behavior, withdrawa	al syndrome, self-	dung beetles, beetle, cattle, coprid beetles	1974 Apr p 100-109
addiction in rat	1965 Feb p 80–88	Dunkers, genetic drift, endogamous group, ear lobes	blood typing
addiction in rat medical history, morphine, hypodermic medical	1971 Jan p 96–102	'hitch hiker's' thumb	Aug p 76-81 [1062]
morphine addiction adolescence, family, alienation, racial discriminations and changes in A	ation, divorce, poverty,	Durer, projective geometry, Renaissance paintings, I theorem Pascal's theorem mathematics project	tive geometry as
infant mortality, crime, suicide, changes in A	70 (1 (561)	systematized by Poncelet and Klein	1955 Jan p 80-86
structure	onboline internal	Durham rule, criminal law, expert wilnesses, insanity	defense M'Naghten
brain function, drug action, endodorphins, enk	v 1977 Mar p 44-56	rule psychiatrists as witnesses dust, climate volcanoes solar radiation world climat	1974 June p 18–23
opiates, opiate receptors, train endocritore	niers, skid row,	actualy 1952	Apr p 74-80 (843)
psychoactive drugs, 'deinstitutionalization' of	f the emolionally ill	and cloud hypothesis, solar system. Sun, cosmology, g	gravity, hight
	1978 Feb p 46-53 [581] 1949 Feb p 29	pressure, gravitational collapse, thermonuclear re	action, genesis of
heroin on increase	<u>-</u>		

solar system	1948 May p 35-45	aurora, airglow, corpuscular streams, solar spicul	es, nightglow, aurora 1955 Sept p 140–150
binary stars, photophoresis, gravitatio	nal collapse, element abundance,	and airglow geomagnetism, remanent magnetism, wandering	
angular momentum, origin of the E	arth 1952 Oct p 53-61 [833] 1949 Dec p 29		1955 Sept p 152-162
scenario refined dust clouds, Milky Way, nebulae, globul		ocean circulation, gyres, wind, upwelling, the circ	
galactic center, seeing a galaxy from	n the inside 1950 Feb p 30-39		1955 Sept p 96-104
dust storms, drought, dry-land farming,		atmospheric tides, ozone, ultraviolet radiation, ul	
technology, mulch, shelter belts, U	S High Plains 1948	hypothesis	1962 Dec p 48-55
	1948 Aug p 7-11	tektites, meteorites, moon moon as source of tek	
air pollution, catalysis, combustibility	, fly ash, metallurgy, fine	orbital motion, stellar aberration, Gamma Draco	1964 Feb p 50-57
particles	1950 Dec p 50-53		1964 Mar p 100–108
dry-land farming, Great Plains, marg agricultural technology	1954 July p 25-29	artificial satellite, orbital motion, geoid, equators	
Mars, terrestrial planets, cratering te		, , , ,	67 Oct p 67-76 [873]
formation, erosion, hydrology, sola	ar system 1975 Sept p 106-117	biosphere, evolution, photosynthesis, environmen	it, atmosphere-
sand dune classification, haboob, soil	lerosion 1976 Oct p 108-114	hydrosphere cycles, introduction to single-topi	
Mars, Martian atmosphere, dry ice fo	gs, wind erosion, Mariner voyages		Sept p 44–53 [1188]
	1977 July p 34–43	planets, solar system, Venus, cratering, Venutian	1975 Sept p 70–78
Dutch elm disease, an antidote dwarf stars, degenerate gas, gravitations	1952 Feb p 38	geoid, gravitation anomalies, Vening-Meinesz ap	
stars, 'dying' stars	1959 Jan p 46~53		955 Sept p 164 [812]
globular cluster stars, H-R diagram,		magnetism, decreasing strength of magnetic field	1957 Feb p 64
subdwarf stars bluer because poor	er in heavy elements	age of Earth's 4.5 billion-year-old rocks	1960 May p 95
	1961 June p 111-120	ellipticity of equator	1961 Apr p 75
dwarfism, ateliosis, midgets, pituitary ii	nsufficiency, genetic disease,	natural satellites	1961 Aug p 71 1963 May p 75
congenital anomalies, consanguin	Thumb 1967 July p 102–110	sedimentary to metamorphic transition Lunar Orbiter I photograph from moon	1966 Oct p 42
panhypopituitarism, General Ton ACTH, child development, emotion	al deprivation growth hormone.	Earth age, 45 billion years	1954 Jan p 40
deprivation dwarfism, 'bone age',	anorexia nervosa	Earth atmosphere, Aerobee-Hi rocket data	1961 Aug p 64
	1972 July p 76–82 [1253]	Earth core, geology, seismology, Earth science, scie	
dye, science history, mauveine, coal-ta	r chemistry, 'Perkin reaction'	geochronology, ocean floor, geology 1900-1950	
biography of William Perkin	1957 Feb p 110-117	Earth heat, Earth mantle, convection currents, he	
light-matter interaction, photochemic light, photolysis triplet state, pho	toreduction photographics	Earth mantle, earthquakes, seismology, the interi	1950 Dec p 54–57
ngm, photorysis triplet state, pho	1968 Sept p 158~170	•	55 Sept p 56-61 [804]
dynamic scattering, liquid crystals, dis	play devices, storage mode,	geomagnetism, geophysics, electromagnetism, ma	
television receiver	1970 Apr p 100~106	convection currents, origin of terrestial magnet	
dynamo, electromagnetic induction, so	nence history, Faraday to dynamo	and have been assessed as a Parth world by the	1958 May p 44-48
discrete bastone flor and demolosi	1961 May p 107-116	earthquakes, seismic waves, Earth mantle, low fre elucidate Earth structure 1959	equency seismic waves Mar p 131–143 [827]
dysentery, bacteria, flies, epidemiolog	1965 July p 92–99	electromagnetic waves, micropulsations, magneti	
dyslexia, visual perception, bilingualis		longest electromagnetic wave	1962 Mar p 128-137
relations, language, reading, perc	eption of words	iron-nickel alloy, high pressure technology, X-ray	diffraction,
	1972 July p 84–91 [545]	crystallography, core studies by analogy, diffra	
		alloys earthquakes underground nuclear explosions, se	1965 June p 100–108
7	7	structure of Earth's interior, core within core	ismic waves, fine
I	<u>.</u>	,	73 Mar p 24-33 [906]
		Earth heat, heat flow, plate tectonics 19	77 Aug p 60-76 [927]
E. Coli: Escherichia coli	Describle source of the state of	Earth crust, mountain formation, isostasis, granitiz	ation, ocean basins,
E. coli, population genetics, evolution recombination, speciation, natur	i, Drosophila, mutation, sexual	ocean floor, tectonic processes, comprehensive	review of
evolution	1950 Jan p 32–41 [6]	understanding (before acceptance of continent	ai drift) 1950 May p 32–41
evolution, penicillin resistance, mu		continental evolution, volcanoes, island arcs, sed	mentation, origin of
	1953 Oct p 78–83	the continents 195	55 Sept p 62-66 [816]
	equence, viral DNA, bacterial virus	Pacific Ocean, Acapulco trench, Tonga Trench, C	
0×174 plus-and-minus method ear, deafness, directional orientation,		Trough ocean floor 19: 150tope dating, radioactive decay, solar system, m	55 Nov p 36-41 [814]
Tary dominoss, and enough offernations	1957 Aug p 66–78 [44]	age of solar system 19	57 Apr p 80–94 [102]
human anatomy, sensory perception	on neuropsychology, eye, Descartes,	Mohorovicic discontinuity, Mohole, Earth mantl	e, technology
17th c approach to human perce		objectives of Mohole Project	1959 Apr n 41-40
ear lobes, Dunkers, genetic drift, end	1964 May p 108–116 [184]	mining, metal ores, natural resources, natural cor	centration of metals
'hitch-hiker's' thumb	1953 Aug. p 76–81 [1062]	earthquake prediction laser, strain gauge, interfe	1960 June p 146-154
Early Iron Age culture, Africa, Bantu	language language diffusion,	oar anquare prediction laser, strain gauge, interfe	1969 Dec p 88–95
linguistics	1977 Apr p 106-114	continental drift, plate tectonics, scaling, subduct	ion sea-floor
Earth, glaciation, orbital motion, ecc forecast, correlating glacial and	entricities of motion, Milankovitch	spreading Thassic period, Pangaea, computer	modeling.
forceast, correlating gracial and	1948 Oct p 40-45	supercontinents breakup of Pangaea traced	50.0
solar eclipse, orbital motion, moor	n 1954 Feh n 36-40	deep-sea drilling, ocean evolution Pacific plate, p	70 Oct p 30-41 [892]
glaciation Antarctic glacier, clima	ite, sea level, hydrologic cycle	sedimentary cores, voyager of the Glomar Cha	llenger
rocket photograph, Earth from sp.	1955 Sept p 84–92 [809]	1973	No. n 102 112 (0111
atmosphene circulation, solar ene	ace 1955 Sept p 109–112 rgy, Earth rotation, circulation of the	atmosphere, geochemical cycle, hydrologic cycle,	lithospheric cycle
atmosphere	1955 Sept. p. 114-124	Earth evolution, plate tectonics solar system, erosio	7/ 1000 - 72 70 (414)
ionospheric winds lunar tide the	ionosphere 1955 Sept p 126-138	- Convection currents Fart	h core heat flow
		radioactivity	1950 Dec p 54-57
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cleetine power generation, geothermal power 1972 Jan p 70-77 [8]	ORI carthaunt a durante d
Lat the core, heat how, plate tectonics 1977 Aug n 60 76 for	1 5 Found Hotton, Scising Waves, Strong motion
Earth history, minerals, fluid inclusions, geology, ancient fluids in cryst.	1977 Dec p 00-78 [928]
1962 Oct n 32 -47 for	1300 SCPL D 48
Earth magnetic field, lightning, radio, ionosphere, 'whistlers', radio echo	es cartiquake zones, continental drift, magnetization patterns, subduction
or rightning 1956 Inn p. 34	20nes, mountain formation, plate tectonics, sea-floor spreading
Antarctica, 'Whistlers', upper atmosphere, solar wind, aurora	overview of the new geology 1972 May p 56-68 [900]
atmosphere-magnetic field-solar wind interaction	island arcs. Lithospheric subduction, mountain formation plate
1962 Sept p 74-83 [85	
aurora borealis, solar wind, solar corona, Van Allen belts, comet tails,	1975 Nov. n. 88_98 (910°
magnetic storms 1964 Apr p 66-	mountain formation, continental drift, Gobi Desert, Himalaya
plasma, solar radiation, ionosphere, geomagnetism, barium clouds,	formation, India-Eurasia collision, plate tectories, sea floor
magnetosphere, electric field, artificial plasma clouds from rockets	sprcading. Tibetan plateau 1977 Apr p 30-4
triple equatorial electrojet 1968 Nov p 80-9	22 cartliquakes, microseisms, seismology, weather 1949 Feb p 42-4
2,55, och: b 1,	
Earth mantle, tectonic processes, mountain formation, convection	,
currents, the 'blister hypothesis' 1949 June p 16-2	1955 Sept p 56-61 [804
geology, scismology, Earth science, science, Earth core, geochronology	
occan floor, gcology 1900-1950 1950 Scpt p 36-3	
Earth heat, convection currents, Earth core, heat flow, radioactivity	9 ocean floor, East Pacific Rise, subterranean heat flow, trench faults, convection currents 1961 Dec p 52-61
1950 Dec p 54-5	seismology, resonance vibration, seismie waves, Earth's free oscillations
grantization 1955 Apr p 77–8.	
Earth core, earthquakes, scismology, the interior of the Earth	atomic test ban, atomic bomb test, underground nuclear explosions
1955 Scpt p 56-61 [804	seismology, arms control, detection and discrimination of
earthquakes, scismic waves, Earth core, low frequency seismic waves	underground atomic weapons tests 1966 July p 19-29
elucidate Earth structure 1959 Mar p 131-143 [827	continental drift, sea-floor spreading, magnetic reversals, crustal
Earth crust, Mohorovicic discontinuity, Mohole, technology, objectives	movement, plate tectonics 1968 Dec p 60-70 [875]
of Mohole Project 1959 Apr p 41-49	plate boundaries, plate tectonics, San Andreas fault
Earth core, electromagnetic waves, micropulsations, magnetic field,	1971 Nov p 52-68 [896]
longest electromagnetic wave 1962 Mar p 128-137	
plastic zone, seismology, isostatic equilibrium, basalt, Mohorovicic	structure of Earth's interior, core within core 1973 Mar p 24-33 [906]
discontinuity, plastic zone at depth between 37 and 155 miles	10/0 4 = 76
1962 July p 52-59 continental drift, plate tectorics, sea-floor spreading, ocean ridges,	seismographic interpretation 1960 Aug p 7 quick-clay liquefaction 1965 Dec p 42
convection currents, tensile-stress hypothesis 1969 Nov p 102–119	Los Angeles San Andreas fault 1971 Apr p 48
kimberlites, meteorite composition, plate tectonics, seismic waves,	ground displacement 1972 July p. 51
plumes, Earth dynamics 1975 Mar p 50-63 [915]	helpful safety hints 1973 Mar p 48
convection cells, convection currents, plate tectonics, driving force of	cartinoris Arawal Indians flood plain agricultural system ridged
continental drift, large-scale circulation 1976 Nov p 72-89 [921]	fields New World archeology 1907 July P 92-100
diamond, plumes, kimberlite pipes, volcanic eruption, genesis of	earwax, variations by race 1971 June p 56
kimberlite pipes 1978 Apr. p. 120–132 [931]	East Pacific Rise, ocean floor, subterranean heat flow, trench faults earthquakes, convection currents 1961 Dec p 52-61
plumes found to be intermittent 1973 July p 48	earthquakes, convection currents 1961 Dec p 52-61 East-West trade, economic development, European economy, trade
Yellowstone Park thermal plume 1975 Feb p 43 Earth mantle convection, ocean floor, Pacific Ocean, Mendocino	defect Feonomic Commission for Furone industrial reconstruction
escarpment, fracture zones, seamounts 1955 July p 36-41	1948 July p 5-10
hot spots and plumes 1972 Nov p 51	Faster Island, Polynesian culture, stone heads 1949 Feb p 50-55
Earth-Moon system, day's length, lunar orbit, moon, tides	Fbla tablets, Old Testament origins 1977 Sept p 101
1972 Apr p 42–52	eccentricities of motion, glaciation, orbital motion, Earth, Milankovitch
earth-moving, excavating machines, tunneling rock borers, surface	forecast, correlating glacial and sidereal time tables 1948 Oct p 40-45
mining, mining 1967 Nov p 74–85	1948 Uct p 40
Earth radius, 6,378,260 meters 1956 July p 50	ecdysone, actinomyosin, cortisone, insulin, estrogens, gene activation, RNA synthesis, aldosterone, growth hormone, ACTH, thyroxin
Earth rotation, Earth, atmospheric circulation, solar energy, circulation of the atmosphere 1955 Sept p 114-124	mechanism of hormone action 1965 June p 36-45 [1013]
the atmosphere 1955 Sept p 114-124 Chandler wobble, earthquake effects, precession	Eschenchia coli, see E coli
1971 Dec p 80-88 [897]	Echo II satellite, artificial satellite, communication satellite,
cosmic background radiation, 'new ether drift' 1967 May p 54	telecommunication, orbital motion, radio, satellite communication
Forth catallite orbital motion, space exploration 1955 Dec p 29-33	systems, consideration of alternatives 1961 Oct p 90-102
gamma-ray astronomy, astronomy, telemetry, first glimpse of gamma-	echo-sounding, ocean floor, topography, Aleutian Trench, seamounts, fathogram, sonar, the Pacific floor 1952 Apr p 19-33
ray sky	auditory discrimination, bats, bat sonar, sonar, sensory perception
U 3 Dians ior 1757	supersonic sonar of bats 1958 July p 40-49 [1121]
USSR plans for 1937	sonar, ocean floor, plankton, deep-sea scattering layer, photic zone
Federal machinery	'false bottom' 1962 July p 44-50
- anhanglogy ocean HOOF, geology 1900-1930 1930 dept p	ultrasonies, medical diagnosis, optics, computer-assisted imaging
	sonar, 1maging internal organs by ultrasound 1978 May p 98–112 [1389]
earthquake distribution, Andes, mountain formation, place to 60, 60 (010)	echo viruses, enteroviruses, poliomyelitis virus, Coxsackie virus, tissue
	culture, epidemiology, benign and infectious intestinal viruses
earthquake dynamics, earthquake prediction ground motion, scans 1929	1959 Fcb p 88–97
waves, strong-motion seismology	eclipse, see solar eclipse
earthquake effects, Chandler wobble, Earth rotation, precession 1971 Dec p 80-88 [897]	eclipse phenomena, chromosphere, corona photosphere, solar corona Sun 1973 Oct p 68-79
1970 Aug. p 46	predicted by Maya 1973 Nov p. 50
	enclosical adaptation, animal behavior, habitat selection, heredity,
earthquake prediction, laser, strain gauge, interteron 1969 Dec p 88-95	learning, field experiments with mice 1964 Oct p 109-116 [195]
plate-boundary stresses, seismology, earthquake precursors 1975 May p 14-23 [917]	
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ecological cycles, DDT residues, insecticide, fallout, food chain,	epidemiology, morbidity, mortality rates, income status, occupational
ecological redistribution of pollutants 1967 Mar p 24-31 [1066]	health, 'social medicine', environment, material well-being, behavior
ecological fragility, rain-forest ecosystem, slash-burn agriculture, tropical	of disease 1949 Apr p 11–15
ram forest, fungal hyphae 1973 Dec p 58-67 [1286]	tuberculosis, tubercle bacillus, mortality rates, public health, science
ecological niche, extinction, species specificity, adaptation, natural	history, popularization of well-being, not therapy, ends 'white plague' 1949 Oct p 30-41
selection, evolutionary radiation, 'Is man here to stay?'	
1950 Nov p 52–55	world population, Malthusian doctrine 1950 Feb p 11-15 developing countries, technical assistance, industrialization, 'point
symbiosis, reef ecology, cleaning behavior, animal behavior, behavioral	
integration of reef ecology 1961 Aug p 42–49 [135]	four' 1950 Mar p 16-19 agricultural production, poverty, education, language, Peru, literacy,
cryptozoa, Berlese funnel, natural history, cryptosphere, animal	Cornell-Peru experiment in economic development
behavior, life under rocks and rotting logs	1957 Jan p 37–45
1968 July p 108–114 [1112] danger of intercontinental animal transport 1957 Apr p 76	soil erosion, irrigation, agricultural technology, poverty, afforestation,
	Mediterranean Project, United Nations 1960 July p 86–103
ecological staircase, Pacific Coast marine terraces 1976 Apr p 56 ecological system, feedback, control loop, servomechanisms, flyball	irngation, Mekong river, monsoons, floods, hydro-engineering, rice,
governor, positive feedback, negative feedback, nervous system,	Mekong river plan, United Nations 1963 Apr p 49-59
economic system, automatic control, feedback concept	technology transfer, Industrial Revolution, introduction to single-topic
1952 Sept p 48–55	issue on technology and economic development 1963 Sept p 52-61
ecological warfare, bomb craters, cratering, defoliation, laterization,	demographic transition, industrialization, urbanization, population
Vietnam war 1972 May p 20–29 [1248]	control, family planning, economic development and the
ecology, Krakatoa, volcanic eruption, plant succession	demographic transition 1963 Sept p 62-71 [645]
1949 Sept p 52–54	agricultural technology, technology transfer, human nutrition, food
eelgrass, marine ecology, foodchain, fungal infection, account of an	production, nutritional self-sufficiency in economic development
ecological catastrophe 1951 Jan p 52–55	1963 Sept p 72-80 [1153]
strangler trees, evolution, tropical rain forest 1954 Jan p 78-80	industrialization, water supply, irrigation, desalination, water resource
estuary, natural history, a teeming life province 1954 May p 64-68	management, technology and economics of water in economic
alfalfa caterpillar, insecticide, life cycle, agricultural pest, wilt disease,	development 1963 Sept p 92–108
predation 1954 June p 38–42	energy technology, industrialization, population, fuel consumption, energy resources, energy requirements and resources for economic
caves, degenerative evolution 1955 May p 98–106	development 1963 Sept p 110–126
foodchain, food chain, human population, population density, 'the human crop' 1956 Apr p 105-112	technology transfer, industrialization, mineral resources, metal
human crop' 1956 Apr p 105-112 energy cycle, biomass, solar energy, food chain, element abundance,	consumption, natural resources and technological substitution
autotrophs, heterotrophs, the ecosphere 1958 Apr p 83–92	1963 Sept p 128–136
climate, marshland, swamp, eutrophication, wetlands, natural history	industrial technology, industrialization, education, human-resource
of marsh, effect on climate 1958 Oct p 114–122 [840]	development, education for economic development
fire, forestry, grassland, forest fire, role of fire in climax ecology	1963 Sept p 140–147
1961 Apr p 150–160 [1099]	input-output analysis, developed countries, developing countries,
Antarctica, oceanography, manne biology, food chain, krill, blue	complementary economic structures of developed and
whale, Antarctic convergence, biological province of Antarctic	underdeveloped countries 1963 Sept p 148–166 [617]
convergence 1962 Sept p 186–210	industrial technology, Nigeria, technology transfer, tribal politics,
Antarctica, fauna, flora, lichens, blue-green algae, Antarctica terrestrial	economic development of former colonial region
life 1962 Sept p 212-230 [865] predation, plant toxins, food chain, milkweed, blue jay, predator-prey	1963 Sept p 168–184 industrialization, population control, agricultural production,
relationship, mimicry, chemical defense against predation	technology transfer, food production, economic planning. India.
1969 Feb p 22–29 [1133]	economic development by democratic planning
calefaction, Connecticut River, fission reactor, thermal pollution,	1963 Sept p 189–206
industrial cooling, nuclear power, fisheries, fish crisis	industrialization, tropical rain forest, subsistence economy, tropical
1970 May p 42–52 [1177]	rain forest, urbanization, resource management, Brazil, uneven
forest communities, lichens, algae, food chain, nitrogen cycle, treetop	national development 1963 Sept p 208–220
ecosystems 1973 June p 74–80 [1274]	industrialization, national economic policy, agricultural technology,
forest succession, trees, leaf distribution 1975 May p 90-98 [1321] Australia, behavioral adaptation, insect behavior, sand wasps, solitary	Federal intervention in economic development of U S South
insects, Bembix 1975 Dec p 108-115	1963 Sept p 224–232
surface tension, water-strider, backswimmer, whirligig beetle,	industrialization, technology transfer, economic planning, market process versus planning in economic development
springtail, aquatic insect, insects of the water surface	1963 Sept p 235–244
1978 Apr p 134–142 [1387]	birth control, family planning, population growth, promotion of birth
bacteria in sourdough 1973 Nov p 50	control in Taiwan 1964 May p 29–37 [621]
see also reef ecology, ecosystem, climax ecosystem, sand dune ecology	agricultural technology, People's Republic of China, industrial
and the like	technology, technology in People's Republic of China
ecology of soil, soil structure, chernozems, podzols, latozols, tundra,	1966 Nov p 37–45
alluvial soils, agronomy, soil erosion, the soils of the world and their	USSR, industrial technology 1968 Dec p 17–23
management 1950 July p 30-39 economic analysis, 'cost push' inflation, 'demand-pull', inflation, input-	arms production, military expenditures, arms trade, arms race, the
output analysis 1971 Nov p 15–21	world cost of the arms race 1969 Oct p 21–27 [650]
business cycle, economic forecasting, economic indicators	Japan, employment policy, investment, debt financing, government- business relations, Japan's economic growth 1970 Mar p. 31–37
1975 Jan p 17-23	business relations, Japan's economic growth 1970 Mar p 31-37 energy, power machines, mechanical energy, biological energy, power,
economic botany, hickory, fences, axe-handles, smoked ham, hickory	introduction to a single-topic issue on energy and power
nuts, forest, natural history, shagbark hickory 1948 Sept p 40-43	1971 Sept. p. 36-40 [661]
Economic Commission for Europe, economic development, European	military expenditures, cold war, politics of aid, 'rich' nations, 'poor'
economy, trade deficit, East-West trade, industrial reconstruction	nations 1972 Apr n 15 21
1948 July p 9-15 economic development, European economy, trade deficit, Economic	Chinese industry, technology, progress of People's Republic of China
Commission for Europe, East-West trade, industrial reconstruction	in computer electronics, instrumentation and control technologies
1948 July p. 9_15	bicycle technology, technology history 1972 Dec p 13–17
Middle East oil, petroleum resources, energy economics, Persian Gulf	demographic transition, human population, population explosion, zero
fields, Iran, Iraq Saudi Arabia 1948 Sept p 9-15	population growth, introduction to single-topic issue on the human
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China, rice, hybrid wheat, agricultural teclinology, hybrid rice,	anaray and a family
irrigation, in estock 1975 June - 12	energy cycle, forest, partitioning of energy in a New England forest
distribution of wearth, middle classes, population growth, production	
statisties, natural resources, demographic transition	eetoderm, eell differentiation, embryonic development, blastula gastrula, fertilization, mesoderm, endoderm, embryological 'organizer',
'arean revolution', laure 1976 July p. 28-	35 science history, review of classical embryology
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11.	24 1973 Nov. n. 92_100 [1283]
	skin, 'New Year Greeting' a poem by W.H. Auden occasioned by
12 12 11 OV 17	30 article in January 1969 issue 1969 Dec p 134
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1754 July D 4	
U.N. survey of scientific resources 1960 Aug prich and poor countries 1972 Sept. p. 6	
comparative growth rates 1973 June p	birds, dinosaurs, endothermy, metabolism birds descended from
UN population conference 1974 Nov p	
poor countries, rich countries 1975 Nov p 5	Ecuador, pottery, human migration, navigation, Japan, New World archeology, evidence for 3,000 B C trans-Pacific contact
economic forecasting, business cycle, economic analysis, economic	1966 Jan p 28–35
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economic geography, urban planning Ciudad Guyana, cities, fand	atmospheric circulation 1968 Jan p 100-113
ownership, highway engineering, a model city in Venezuela	negative viscosity, turbulence, wind, nonuniform flows, rotating
1965 Sept p 122–13	2 systems, viscosity 1970 July p 72–80
energy economics, energy storage, pipelines, power transmission,	edge dislocation, crystal structure dislocations, soap bubbles slip planes
tankers, power, economic geography of energy production,	1955 July p 80-87 [204]
distribution and consumption 1971 Sept p 164–175 [669	edge tone, feedback, vortex, aerodynamic whistles, hole tone, sound
economic indicators, business cycle, economic analysis, economic	waves, whistles flutes organs and rocket engines 1970 Jan p 40-46
forecasting 1975 Jan p 17-22 economic planning, Amazon, tropical rain forest, developing countries.	00 114
resource prospecting, forest management, mineral resources, electric	
power, the Amazon frontier 1948 May p 11–14	education, agricultural production, poverty, economic development language, Peru, literacy, Cornell-Peru experiment in economic
economic development, industrialization, population control,	development 1957 Jan p 37-45
agricultural production, technology transfer, food production, India.	mathematics teaching curriculum reform high school, university
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1963 Sept p 189-206	learning memory experimental psychology, 'drill' in learning
economic development, industrialization, technology transfer, market	1958 Aug p 68-72 [422]
process versus planning in economic development	teaching machine operant conditioning, inductive reasoning rhythm self-teaching by small rigorous steps 1961 Nov p 90-102
1963 Sept p 235–244	us population, labor force, age-sex distribution, demographics
decision theory, energy economics power production, technology assessment, tort law, market process 1971 Sept p 191-200 [671]	national product, U S census, more from the U S census of 1960
economic power, black power, American Negro, racial discrimination,	1962 Oct p 30-37
group identity, ethnic groups, slavery, social deprivation	industrial technology, economic development, industrialization
1967 Apr p 21–27 [633]	human resource development, education for economic development
economic regionalism in U S., natural gas, pipelines, appraisal of natural	1963 Sept p 140-147
gas, economics and resources in U.S. 1951 Nov. p. 17–21	poverty, group behavior, rural poverty, community action, emotional
economic system, feedback, control loop, servomechanisms, flyball	illness social psychology, study of community regeneration 1965 May p 21-27 [634]
governor, positive feedback, negative feedback, ecological system,	computer technology, teaching machine programmed instruction
nervous system, automatic control, feedback concept 1952 Sept p 48-55	individualized teaching 1966 Sept p 206-220 [533]
economics, psychology, economic psychology 1954 Oct p 31–35 [452]	Nobel prizes university education, sociology, scientific careers
input-output analysis, arms control, military expenditures, impact of	sociology of the Nobel prizes 1967 Nov p 25-33
disarmament on U.S. economy 1961 Apr. p. 47-33 [611]	teacher expectation and pupil performance 1967 Nov p 54-59
mathematical model, social sciences decision theory, mathematics in	'psychology of desegregation' 1957 May p 68 USSR 1958 Jan p 44
economics and other social sciences 1964 Sept p 168-182	USSR Perceptron, self-teaching machine 1958 Sept p 88
input-output analysis, U.S. economy, interindustry transactions, 1958	education funding, Hill-Elliot bill 1958 Apr p 48
U S Department of Commerce input-output table 1965 Apr p 25-35 [624]	curriculum reform U.S. National Science Foundation program
4-1 Applicate input-output analysis, labor force, U.S.	1958 July p 4/
emport of technological change, 1947-1938, input-output tables	US Federal 1958 Oct p 52
1900 Apr p 25 3. [425]	educational performance, social deprivation, teacher expectations
critique of 'Limits to Growth' 1974 Feb p 42	experiment in self-fulfilling prophecy for disadvantaged children 1968 Apr p 19-23 [514]
	educational research, National Institute of Education 1972 May p 48
planning ecosystem, solar radiation photosynthesis, biosphere agricultural ecosystem, climax ecosystem energy cycle, food chain respiration, ecosystem, climax ecosystem energy cycle, food chain respiration, 1970 Sept. p. 64–74 [1190]	educational TV, channels dedicated 1951 May p 34
	eclgrass, marine ecology foodchain ecology, fungal infection account of
biosphere energy cycle	an ecological catastrophe 1951 Jan p 52-55 efficiency, desert plants C-4 trait plant breeding
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watershed, deforestation, deforestation experiment p 92–101 [1202]	eggs, animal behavior, incubator birds chicken fowl ornithology.
energy cycle Eskimo, hunting societies, food chain seal power, Baffin 1971 Sept p 104-115 [665]	hatching eggs in hot places 1959 Aug p. 52–58
Island Island Island System power, New	agricultural technology poultry production food production animal
animal husbandry, energy cycle, agricultural system po	husbandry chicken US chicken factories 1966 July p. 56-64 mosquitoes yellow fever sexual behavior reproduction larvae Aedes
Guinea tropical agriculture	Aegypti 1968 Apr p 103-116
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eggshell, bone, calcium metabolism, chicken, calcite, mobilization of	public opinion, voting behavior, attitude survey, election of 1952
calcium from bone 1970 Mar p 88–95 [1171]	1954 May p 31-35 reapportionment, redistricting, representative government, computer
thickness gauge 1967 Feb p 60 eggshell thinning, calcium metabolism, pollution, chorinated	applications, gerrymander 1965 Nov p 20–27
hydrocarbons, DDT, dieldrin, avian reproduction, insecticide, food	public opinion, voting systems, paradox inescapable
chain, ecological effect of pesticides 1970 Apr p 72–78 [1174]	1976 June p 21–27 [689]
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Nile valley, Sakkara, burial site, pharaohs, tombs of the first pharaohs	electric arc, plasma jet, heat, magnetohydrodynamics, 30,000 degrees F
1957 July p 106–116	torch, applications 1957 Aug p 80–88
Egyptian glass, glass, glassmakers, Roman glass, faience, chemical and	electric automobile, automobile, battery, air pollution, weight, cost, performance of electric automobile 1966 Oct p 34-40
physical analysis of ancient glass 1963 Nov p 120–130	battery research 1966 Dec p 65
eidetic images, vision, child psychology, perceptual memory, 'photographic' memory 1969 Apr p 36-44 [522]	electric chair, technology history, Edison (DC) vs Westinghouse (AC)
demonstration 1970 Mar p 62	1973 Apr p 45
Eiffel Tower, wind bracing, skyscrapers, construction technology,	electric current, Josephson effects, superconductivity, microwave
cantilever, truss bridge, steel frame construction, curtain wall	emission, tunnel junction, quantum mechanics, confirmation and
1974 Feb p 92–105	applications of Josephson effects 1966 May p 30-39 electric field, atmospheric ionization, thunderstorms, Wilson hypothesis,
'eightfold way', high-energy physics, baryons, mesons, 'strong' force, conservation laws, Regge trajectory, resonance 'particles', 'bootstrap'	atmosphere, thunderstorms replenish Earth's charge
hypothesis 1964 Feb p 74–93 [296]	1953 Apr p 32–37
mathematics, physical sciences, group theory, field theory, S-matrix	electric 'wind', electrophoresis, non-uniform electric field, applications
theory, mathematics in physics 1964 Sept p 128–146	of non-uniform electric fields 1960 Dec p 106-116
alternating-gradient synchrotron, omega-minus particle, bubble	bioluminescence, electric fishes, animal navigation 1963 Mar p 50-59
chamber, particle accelerator, high-energy physics, US Brookhaven	Gunn effect, microwave emission, negative resistance, solid state physics, electronics, gallium arsemide, solid state microwave
National Laboratory experiment 1964 Oct p 36-45 einkorn, wheat, wild einkorn, emmer, hybrid cells, fungi, chromosome	generation 1966 Aug p 22-31
doubling, plant breeding, origin and perfection of wheat	plasma, solar radiation, ionosphere, Earth magnetic field,
1953 July p 50–59	geomagnetism, barium clouds, magnetosphere, artificial plasma
Einstein, relativity, photoelectric effect, work of Albert Einstein	clouds from rockets 1968 Nov p 80–92
appraised at 70 1949 Mar p 52–55	electric field of atom, magnetic resonance, atomic structure, high pressure,
quantum mechanics, Planck, science history, spectroscopy, black body, resonators, photoelectric effect, Compton effect, quantum jumps	magnetic field, behavior of atoms under high pressure 1965 Jan p 102–108
1952 Mar p 47–54 [205]	electric fishes, sodium ion potential, electroplaques, neurophysiology,
tributes to Albert Einstein by Niels Bohr and I I Rabi	synapse, acetylcholine, animal behavior, nerve impulse,
1955 June p 31–33	bioluminescence 1960 Oct p 115–124
interview with Albert Einstein two weeks before his death	bioluminescence, electric field, animal navigation 1963 Mar p 50-59
l955 July p 68-73 gravity, inertia, Galilean relativity, frames of reference, philosophy of	electric light, lighting, zinc sulfide, alternating current, technology of indoor lighting 1957 Aug p 40-47 [221]
science, relativity, identity of inertia and gravity	incandescent lamp, industral research, science history, Edison, Thomas
1957 Feb p 99–109	A Edison, biography 1959 Nov p 98–114
Lorentz transformation, relativity, child development, child's view of	indoor lighting panels 1951 Mar p 28
reality 1957 Mar p 46–51	electric power, Amazon, tropical rain forest, developing countries,
gravity, time-space continuum, electromagnetism 1961 Mar p 94–106 publishes 'unified field theory' 1950 Feb p 24	resource prospecting, economic planning, forest management, mineral resources, the Amazon frontier 1948 May p 11-14
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table at 101 1956 Dec p 66-80 [243]	alternating current, high-voltage transmission, power transmission,
El Inga site, anthropology, Paleolithic culture, stone tools, obsidian, Andes, prehistoric man in the Andes 1963 May p 116-128	hydroelectric power generation, corona discharge, economic advantages of high-voltage transmission 1964 May p. 38-47
El Niño, Peru Current, anchovy, guano, seagulls, upwelling	advantages of high-voltage transmission 1964 May p 38–47 battery, electrochemistry, Volta, Galvani, Volta's contributions,
1954 Mar p 66–71	biography 1965 Jan p 82–91
anchovy crisis, fishing, upwelling, Peru Current, Peruvian anchovy	fission reactor, energy demand, nuclear power, fossil fuel, energy
1973 June p 22–29 [1273]	economics, history and prospects of nuclear power in U S
Elamite culture, ziggurat, religion, Tower of Babel, Biblical archeology, 1000 B C, Iran 1961 Jan p 68–76	1968 Feb p 21-31 circuit breakers, high-voltage current, plasma arcs 1971 Jan p 76-84
ancient trade, archeology, writing, Mesopotamian culture, Persia,	superconductors, transmission lines 1971 Jan p 76–84
Sumer, Iran, Tepe Yahya 1971 June p 102–111 [660]	
eland, malnutrition, food supply, human population, hunger, human	platinum catalyst fuel cell 1963 June p 78
nutrition, Incaparina, capybara, manatee, mussels, developing countries, unorthodox food sources 1967 Feb p 27–35 [1068]	Passamaquoddy Bay project 1963 Sept p 83
elastase, catalytic proteins, enzyme action, protein-cutting enzymes,	magnetohydrodynamics 1964 Feb p 68 nuclear capacity worldwide 1965 Sept p 80
proteolytic enzymes, serum proteins, chymotrypsin, trypsin	nuclear power prospects 1966 Feb p 50
1974 July p 74–88 [1301]	load-leveling 1977 July 5 59
elastic energy, adhesive, molecular attraction, surface tension, epoxy resins, molecular repulsion, micromechanics of adhesion	electric power generation, gas turbine, aircraft propulsion, centrifugal
1962 Apr p 114–126	compressor, axial-flow compressor, ducted fan 1953 Nov p 65-72 battery, fuel cell, energy transformation, energy economics, direct
elastin, collagen, keratın, myosın, fıbrın, cell, polymers polymers in living	conversion chemical to electric energy 1959 Oct p. 72.79
cells 1957 Sept p 204–216 [35] collagen, fibroblasts, microfibnls 1971 June p 44–52 [1225]	ship propulsion steam turbines, turbine blade design construction of
collagen, fibroblasts, microfibrils 1971 June p 44-52 [1225] elastomers, butadienc, rubber synthesis, isoprene, vulcanization, latex,	turbines applications, history 1969 Apr p 100–110
synthetic rubber, molecular structure 1956 Nov. p. 74_88	automobile propulsion, energy and 1972 Jan p 70–77 [898]
polymers, X-ray diffraction, molecular structure, mechanical properties	technology, flywheels
of giant molecules 1957 Sept p 120–134 constrained-layer damping 1968 May p 53	automatic control computer technology generator control
election-district boundaries, computers 1964 Mar p 57 58	
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elections, mass communications public opinion, attitude survey	

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electrie 'wind', electric field, electrophorests, non-uniform electric field, electromagnetic flight, transportation, linear induction motor, linear applications of non-uniform electric fields 1960 Dce p 106-116 synchronous motor, 'magneplane' vehicle, magnetic levitation, electrical conductivity, crystal structure, solid-state electronics, X-ray superconductors erystallography, metals, semiconductor, nonmetals, materials 1973 Oct p 17-25 electromagnetic force, matter, wave-particle duality, energy levels, technology, amorphous solid 1967 Scpt. p 80-89 nuclear forces, gravitation, field theory, fundamental research, Fermi surface, semiconductor, materials technology, quantum quantum jumps, corpuscular streams, what is matter? mechanics, charge earriers, electron mean free path, electrical 1953 Sept p 52-57 [241] properties of materials 1967 Scpt p 194-204 nuclear forces, proton, neutron, mesons, particle scattering, high-'electrical fluid', Franklin, science history, sentry-box experiment, energy physics, fundamental research, what holds the nucleus electrical nature of lightning, Benjamin Franklin, life and work together? 1953 Sept p 58-63 1948 Aug p 36-43 particle interaction, high-energy physics, gauge theory, field theory, electrical induction, stellar magnetic fields, cosmic radiation, radio 'weak' force, 'strong' force 1974 July p 50-59 emissions, megnetohydrodynamics, electricity in space particle interaction, gauge theory, neutrino interactions, 'weak' force, 1952 May p 26-29 neutral-weak-current interactions 1974 Dec p 108-119 Faraday, science history, life and work of Michael Faraday gravity, 'weak' force, 'strong' force, supergravity, symmetry, quest for 1953 Oct p 90-98 unified theory of basic forces 1978 Feb p 126-143 [397] science history, radiowave, Henry, life and work of Joseph Henry electromagnetic frequency shift, artificial satellite, relativity theory, 1954 July p 72-77 Mercury, stellar shift, perihelion shift, clock paradox, general electrical nature of lightning, Franklin, science history, sentry-box relativity, testing Einstein's general theory of relativity experiment, 'electrical fluid', Benjamin Franklin, life and work 1959 May p 149-160 1948 Aug p 36-43 electromagnetic induction, dynamo, science history, Faraday to dynamo electrical properties of metals, BCS theory, crystal structure, intermetallic 1961 May p 107-116 compounds, intercalated crystals, superconductors, layered electromagnetic pulse, see EMP superconductors 1971 Nov p 22-33 electromagnetic radiation, magnetic monopoles, elementary particles electrical propulsion, 10n propulsion, plasma jet, jet velocity, cesium-ion particle accelerator, search for elementary particle of magnetism beam, magnetohydrodynamics, space exploration 1963 Dec. p 122-131 1961 Mar p 57-65 photon, Coulomb's law, quantum mechanics, mass of photon electrical resistance, superconductivity, magnetism, eryogenics, upper 1976 May p 86-96 limit of temperature of superconductivity electron-bole liquid, exciton, quantum mechanics, semiconductor 1976 June p 28-37 1957 Nov p 92-103 (227) electrocardiography, eardiology, eardiae 'conduction bundle', electrical electromagnetic spectrum, radio, science history, electromagnetism 1957 Dec p 98-106 events in the heart 1961 Nov p 132-141 'Hertzian' waves, Heinrich Hertz biography irradiation standards, microwave diodes, microwave radiation, nsk eardiac arrhythmia, intensive care, coronary care unit, fibrillation, 1972 Feb p 13-21 coronary occlusion, nerve conduction, heart infaret estimation, technology assessment carrier-wave modulation, coaxial cable, communication technology, 1968 July p 19-27 fiber optics, radiowave, communication channels, bandwidth noise learning, autonomic nervous system, heart rate, blood pressure, curare, 1972 Sept p 98-113 learning voluntary control of autonomic nervous system electron manipulation, electron storage rings, spectroscopy, 1970 Jan p 30-39 [525] synchrotron radiation, X-ray lithography, X-ray probe, uses of electrochemical machining, electrolysts, metal forming 1977 June p 32-41 [365] 1974 Jan p 30-37 synchrotron radiation electromagnetic waves, Earth core, micropulsations, magnetic field, Earth electrochemistry, phlogiston theory, electrolysis, Davy lamp, science 1962 Mar p 128-137 1960 June p 106-116 mantle, longest electromagnetic wave history, Humphry Davy, biography diffraction, light, wave-particle duality, opties, interference, photon battery, electric power, Volta, Galvani, Volta's contributions, emission, introduction to single topic issue on light 1965 Jan p 82-91 biography 1968 Sept p 50-59 electrocoating, air pollution, corona discharge, fly ash, electrostatics, electromagnetism, unified field theory, gravity, nuclear forces, 'On the photocopying, xerography, electrostatic precipitation and seperation Generalized Theory of Gravitation', a personal account by Albert 1972 Mar p 46-58 1950 Apr p 13-17 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, Einstein geomagnetism, permanent magnets, Blackett hypothesis, Elsasserbrain surgery, 'the great raveled knot', localization of brain function Bullard hypothesis, theories on origin of terrestrial magnetism 1948 Oct p 26-39 [13] 1950 June p 20-24 brain waves, alpha rhythms, medical diagnosis, Fourier analysis, Maxwell's equations, field theory, life and work of James Clerk 1954 June p 54-63 toposcope display, automata theory 1955 June p 58-71 perceptual isolation, hallucination, boredom, neuropsychology, sensory Maxwell radio, science history, 'Hertzian' waves, electromagnetic spectrum, deprivation, effect of exposure to monotonous environment 1957 Dec p 98-106 1957 Jan p 52-56 [430] Heinrich Hertz biography magnetism, magnetic field, force-free windings, million gauss field brain waves, learning, sleep, conditioned behavior, correlation of brain 1958 Fcb p 28-33 1959 Aug p 89-96 waves to behavior geomagnetism, geophysics, magnetohydrodynamics, convection dreams, sleep, REM sleep, function of dreams currents, Earth core, origin of terrestial magnetism 1960 Nov p 82-88 [460] 1958 May p 44-48 brain waves, computerized EEG observation of behavior in man, molecular physics, intermolecular force, Coulomb force, measurement 1962 June p 142-153 localization of brain function dreams, sleep research, reticular formation, brain waves, paradoxical of intermolecular force between macroscopic bodies 1960 July p 47-53 sleep, REM sleep, cat brain, the states of sleep 1961 Mar p 94-106 gravity, time space continuum Einstein 1967 Feb p 62-72 [504] superconductivity, shaped field, magnetic bottle, materials technology, electrolysis, electrochemistry, phlogiston theory, Davy lamp, science development and applications of supermagnets 1960 June p 106-116 history, Humphry Davy, biography 1962 June p 60-67 [279] 1974 Jan p 30-37 electrochemical machining, metal forming muonium, muon, electron, elementary particles positronium, atom electroorganic chemistry, electrolytic chemical processes 1966 Apr p 93-100 structure of muonium 1967 Apr p 50 mobium alloys, magnetism, superconductors, proton beam focusing electrolyte balance, shock, traumatic shock, capillary bed, cardiovascular generation of intense magnetic fields 1967 Mar p 114-123 1952 Dec p 62-68 system, blood transfusion electron discovery, induction coil radio discovery, X-ray discovery, diabetes insipidus, thirst, salt excretion, thermoregulation, urine, 1971 May p 80-87 science history kidney, physiological psychology, osmoreceptor theory of thirst, superconductors niobium 1961 Apr p 80 1956 Jan p 70-76 electromechanical switching, electronic switching, telephone switching Cannon 'dry mouth' theory clectrolyzer technology, energy resources, hydrogen, hydrogen-energy markers, electronic replaces electromechanical switch economy, liquified hydrogen, cryogenic storage, fuel cell

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destron vera partiale duality, diffraction interference fringes electr	ron	electron-multiplier tube, scintillation counter, particle accelerator,
electron, wave-particle duality, diffraction, interference fringes, electron diffraction. Dayisson-Germer experiment 1948 May p. 5		scintillation counters 1953 Nov p 36–41
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mesons, photon, neutrino, particle accelerator, nuclear binding f		electron optics, electronics, electron tubes, amplifiers, communication
'Meson Song' 1948 June p 2	10-37	technology, rectifiers, cathode-ray tube, communication, power,
positronium, positron, quantum electrodynamics 'model atom'	00.00	thermionic emission, state of the technology 1950 Oct p 30–39
1954 Dec p 8		communication technology, laser, pulse-code modulation, Kerr effect,
photographic emulsion, particle tracks, cosmic radiation, neutron,		Pockel's effect, polarization, modulators, modulation of laser light
proton, characteristic 'signatures' of particles 1956 May p 4	10-4 7	1968 June p 17–23
particle interaction, muon, 'weak' force, high-energy physics, prope		microcircuit fabrication, computer-controlled fabrication, silicon
of massive negative particle 1961 July p 46-55		'chips', computer technology, integrated circuits 1972 Nov p 34-44
muonium, muon, elementary particles, electromagnetism, positron		electron orbitals, alkalı-metal anıons, alkalı-metal cations, cryptands,
atom, structure of muonium 1966 Apr. p 93	3–100	solvated electrons, quantum mechanics 1977 July p 92–105 [368]
atoms, elementary particles, neutron, proton, matter, structure of		electron pairs, energy transfer, superconductors, organic superconductor,
'ordinary matter' 1967 May p 126	5-134	proposal for room-temperature superconductor 1965 Feb p 21-27
antimatter, g factor, magnetic moment, electron spin, positron,		electron plasma, plasma physics, positive ion plasma, 'hole' plasma,
magnetic bottle 1968 Jan p 7	7 2 –85	plasmas in solids as models for study of gas plasmas
photoelectric effect, color, reflection, refraction, light, resonance		1963 Nov p 46–53
absorption, photon, interaction of light with matter		electron-positron annihilation, antimatter, high-energy physics, colliding-
1968 Sept p 6	50-71	beam accelerator, proton, parton model, quantum electrodynamics
electric potential in centrifugal motion measured 1968 Dec	p 56	1973 Oct p 104–113
electron tubes, electronics, amplifiers, communication technology,	-	antimatter, J particle, psi particle, charm, color, quark, high-energy
rectifiers, electron optics, cathode-ray tube, communication, pov	wer,	physics storage rings, virtual particles 1975 June p 50-62
thermionic emission, state of the technology 1950 Oct p 3		electron-ring accelerator, collective-effect accelerators, particle
electron accelerator, linear accelerator, traveling-wave accelerator,		accelerator, particle-storage rings 1972 Apr p 22-33
internal drift-tube accelerator 1954 Oct p 40-44	[234]	1,000 GeV(?) 1969 Oct p 48
linear accelerator, Stanford Linear Accelerator Center, Llystron tu		electron scattering, atomic nucleus, nuclear physics, high-energy physics,
two-mile Stanford Linear Accelerator 1961 Nov p 49-57		particle-scattering experiments, models of the atomic nucleus
electron beam, cold cathode, current density, X-ray photography, fie		1956 July p 55–68 [217]
emission 1964 Jan p 108		proton spin, spin, high-energy physics, 'strong' force, dependence of
light-emitting diode, semiconductor, laser, junction diode, solid-sta	ate	nuclear forces on spin 1966 July p 68–78
lasers 1967 May p 108		electron shells, molecular structure, computer modeling, quantum
electron diffraction, electron, wave-particle duality, diffraction,		chemistry, molecular orbits, computer graphics 1970 Apr p 54-70
interference fringes, Davisson-Germer experiment		electron shower, detection of cosmic ray events 1957 June p 70
1948 May p 3	50-53	electron spin, materials technology, ferromagnetism, magnetic domains,
crystallography, crystal structure, slow electrons as diffraction pro	be	hysteresis, magnetic properties of materials 1967 Sept p 222-234
1965 Mar p :		antimatter, g factor, electron, magnetic moment, positron, magnetic
electron discovery, electromagnetism, induction coil, radio discovery	/, X-	bottle 1968 Jan p 72-85
ray discovery, science history 1971 May p		electron-spin resonance, aging, radiation damage, free radicals, chemical
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boundaries, lattice defects, dislocations, nature of metals		1970 Aug p 70–83 [335]
1967 Sept p 9	0-100	electron storage rings, electromagnetic spectrum, electron manipulation.
electron-hole liquid, electromagnetic radiation, exciton, quantum		spectroscopy, synchrotron radiation, X-ray https://www.x-ray
mechanics, semiconductor 1976 June p		probe, uses of synchrotron radiation 1977 June p. 32–41 (365)
electron interferometer, for perfect standards 1953 Aug		electron theory, molecular beam, resonance absorption, atomic radiation.
electron manipulation, electromagnetic spectrum, electron storage manipulation	ngs,	coherent radiation, gas molecules, nuclear magnetic resonance,
spectroscopy, synchrotron radiation, X-ray lithography, X-ray		Stern-Gerlach experiment 1965 May n 58-74
probe, uses of synchrotron radiation 1977 June p 32-41		electron transfer, ATP synthesis, mitochondria, oxidation membrane.
electron mass, physical constants, measurement, velocity of light, pa	irticle	mitochondrion, proposed structure of mitochondrion
charge, least-squares method standards of measurement, Planc	k's	1964 Ian n 63-74
constant, Rydberg constant 1970 Oct p 62–78	3 [337]	chlorophyll, photosynthesis, chloroplast, ATP, cytochrome, pigments,
electron mean free path, electrical conductivity, Fermi surface,		role of chlorophyll in photosynthesis. 1965 July p. 74-83 [1016]
semiconductor, materials technology, quantum mechanics, char carriers, electrical properties of materials 1967 Sept p 19		anthracene, crystallography, photosynthesis, exciton, plants, organic
carners, electrical properties of materials 1967 Sept p 19 electron micrographics, soap 1952 Feb p		crystals, conjugated aromatic hydrocarbons 1967 Jan p 86-97
electron microscopy, virology, cell, viruses inside cells	20-29	chlorophyll, chloroplast photosynthesis, light absorption
1953 Dec p	38 /1	1974 Dec p 68–82 [1310]
muscle contraction, muscle fiber, myosin, actin, muscle fiber struc	70 -4 1	electron transport, bacterial toxin, plague bacillus, Black Death,
and function 1958 Nov p 66–8	27 f191	respiration mechanism of death by plague toxin
bacteriology, microorganisms, PPLO, virus cytology, smallest free	ار 1 ا	chloroplast photography 22–100
living cells 1962 Mar p 117–126	[1005]	chloroplast, photosynthesis, photochemistry, chlorophyll, mechanism of photosynthesis
cell membrane, endoplasmic reticulum, myelin sheath mitochond	Ina.	of photosynthesis 1969 Dec p 58-70 [1163] electron tube, rectification, radio thermionic tube, diode, Fleming.
nuclear membrane, electron microscope study of membranes in	ı cell	history of science, England, Edison, lamps, Deforest
1962 Apr p 64–72	2 [15]]	
human physiology, sarcoplasmic reticulum, muscle fiber, sarcopla	ismic	electronic calculator, see computer
reticulum, functions deduced from structure		electronic camera, astronomy, image enhancement, image intensifier,
1965 Mar p 72–80	[1007]	telescope, electronic image processing 1956 Mar p 81–90
actin, muscle contraction myosin, ATP, sliding filament hypothe	SIS	vision, retina, photographic emulsion, vidicon, television compre
1965 Dec p 18-27	[1026]	photochemistry, light, image detection 1068 Some - 110 117
atom visibility, microscopy, scanning electron microscope		electronic circuitry, junction diode amplifiers, ampli
1971 Apr p DNA transcription gene action visualized, ribosome, mRNA	26-35	reproduction transistor, noise
transcription gene action visualized, fibosome, mRNA	[10/5]	integrated circuits, microelectronics, technological and
stains for cell subjects 1973 Mar p 34–42	[1267]	'chips', introduction to single-topic issue on microelectronics
	p 96	1077 5 62 62 62 62
protein structure, purple membrane 1972 Oct 1975 Nov	p 40	and the components multiple. Integrated circuits translate.
electron mirror microscope, forcrunner of scanning	h 20	microelectronics silicon 'chips' 1965 No. p. 56.70

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electronic equipment, automatic manufacture,	Project Tipl arton med	
dengn	1055 Aug - 20	
sound waves, communication technology, cr	vstal surface were	nucleochronology, radioactive nuclei, stellar evolution supernovae
Rayleigh waves, signal processing, ultrasoi	nic waves	chondries planets select the selection of the selection o
	1072 Oct n 50	cliondrites, planets, solar system chemistry, space exploration stellar evolution 1974 Mar p. 50-65
electronic scanner, computer technology, inform	nation storage	element transmutation, atomic theory, Rutherford-Soddy theory, science
information retrieval, microrecording, mic	roficlic, library science	IIISIOFY, radioactivity, radioactive decay transmitted an execution of
electronic switching telephone on walking t	1966 Scpt p 224-2	+2 'newer alchemy' 1966 Aug p 88-94
electronie switching, telephone switching, electr markers, electronic replaces electromechan	omcelianical switching,	elementary particles, electron, proton, particle counters, neutron
		positron, mesons, photon, neutrino, particle accelerator, nuclear
communication networks, communication sa	1962 July p 132–14	binding force, 'Meson Song' 1948 June p 26-39
network theory, radio, communication, tele	enne, munipie ing, enhone systems, telemero	cosmic radiation, ion traps, secondary radiation, high-energy physics
systems	1972 Sept. p. 116_12	9 field theory both and 1 or 1 to 1
electronic telephone, telephone, solid-state elect	ronics, integrated circuit	field theory, high-energy physics, Classical physics, quantum fields, with 20 particles known, a review of the theoretical foundations of
telephone based on integrated circuits	1978 Mar p 58-64 [300:	physics 1953 Apr p 57-64 [208]
electronic typesetter, letter-projection method	1967 Dec. n. 5	
electronie typesetting, printing, photographic ty	pesetting, digital	detection of theoretical particle 1956 Jan p 58-68
computer, mechanical composition, cathod applications	e-ray tube, computer	parity, 'weak' force, symmetry, quantum, particle interaction, right and
with help of photography	1969 May p 60-6	
electronics, solid state physics, transistor, vacuu	1949 Nov p 2	
diode, triode, dawn of solid-state electronic	s 1948 Sept p 52–5:	recognition of 'fourth force' 1959 Mar p 72-84 [247]
electron tubes, amplifiers, communication tech	hnology, rectifiers	magnetic monopoles, electromagnetic radiation, particle accelerator, search for elementary particle of magnetism 1963 Dec p 122-131
electron optics, cathode-ray tube, communic	cation, power, thermionic	muonium, muon, electron, electromagnetism, positronium, atom
emission, state of the technology	1950 Oct p 30-39	structure of muonium 1966 Apr p 93–100
transistor, junction transistor, vacuum tube, co	omputer technology,	atoms, electron, neutron, proton, matter, structure of 'ordinary matter'
forecast of a 'revolution in electronics'	1951 Aug p 13-17	1967 May p 126-134
electric field, Gunn effect, microwave emission	i, negative resistance,	energy levels, atom, nucleus, high-energy physics, spectroscopy, 'three
solid state physics, gallium arsenide, solid st generation		spectroscopies' 1968 May p 15-19
optical maser	1966 Aug p 22-31 1962 Jan p 62	alpha clustering, alpha particles, atomic nucleus, nuclear clustering neutron, nuclear forces, nuclear surface, proton
electroorganic chemistry, electrolysis, electrolytic		1972 Oct p 100-108
Ç, y, y	1967 Apr p 50	lentons, heavy lentons, tau particle, small light-particle family gains
electrophoresis, protein separation, Schlieren scal		new member 1978 Mar p 50-57 (3%)
electrophoresis	1951 Dec p 45-53	mesons, multiplying particles 1948 Dec p 26
sex determination, spermatozoon motility, gene	manipulation, sorting	see also high-energy physics elements, element abundance, cosmic distribution 1950 Oct p 14-17
out Y-bearing sperm by electrophoresis	1958 Nov p 87–94	elements, element abundance, cosmic distribution 1950 Oct p 14-17 glass, metals, materials technology, ceramics, polymers, chemical band,
immunoelectrophoresis, antigens, antibodies, so	60 Mar p 130–140 [84]	composite materials, atom, introduction to single-topic issue oil
electric field, electric 'wind', non-uniform electric		materials 1967 Sept p 06-77
non-uniform electric fields	1960 Dec p 106-116	hving matter, essential elements, metallo-enzymes, fluorine, silicon, tin
evolution, gene pool, mutation, genetic load, po		vanadium, list of elements essential to life lengthened to 24 1972 July p 52-60
	0 Mar p 98–107 [1172]	1972 July p 52 00
electroplaques, electric fishes, sodium ion potentia synapse, acetylcholine, animal behavior, nerv	ii, neurophysiology,	isotopes, radioactive decay, atomic nucleus, 'synthetic' elements, exotic isotopes of light elements 1978 June p 60-72 [3010]
bioluminescence	1960 Oct p 115–124	elements renamed by Commission on Ingranic Nomenclature
electroplating, with titanium	1954 Dec p 58	1949 Not p 30
plating refractory metals	1957 Aug p 62	elephant, intelligence, learning, vision, research in elephant learning
electroretinography, vitamin A deficiency, night bl	ındness, opsin,	1957 Feb p 44-77
rhodopsin, bright-light exposure, retinitis pigr	nentosa, night 66 Oct p 78–84 [1053]	anımal husbandry, antelope, gıraffe, buffalo, rhınoceros hıppopotamus, wıldlıfe husbandry in Africa 1960 Nov p 123-134
blindness in rat, action of vit A on eye 196 electrostatic belt generator, particle accelerator, Va		elephant extinction. Cloves culture hunting mammoth-hone deposits
charge-changing accelerator, negative ion	1970 Aug p 24-33	Folsom points. New World archeology 1966 June p 104-112
electrostatics, air pollution, corona discharge, elect	rocoating, fly ash,	elephantiasis, circadian rhythm, filariasis, parasitism, tropical disease
photocopying, xerography, electrostatic precip	itation and seperation	1958 July p 94-101
	1972 Mar p 46-58	elliptical galaxies, gravitational collapse, galactic evolution barred galaxy, spiral galaxies, evolution from taxonomy
element 103, 'synthetic' elements, lawrencium, tran high-flux isotope reactor, heavy-ion linear acce	suramum elements,	1956 Sept p 100-108
	1963 Apr p 68–78	galactic evolution, spiral galaxies, origin and history from shape
at 103 element 104, synthesized	1969 June p 56	1963 Jan p 70-84
element abundance, cosmology, red snift, galactic re	cession, 'synthetic'	Elsasser-Bullard hypothesis, geomagnetism permanent magnets.
elements, universe expansion	1948 July p 20–25 1950 Oct p 14–17	electromagnetism, Blackett hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24
elements, cosmic distribution		clutriation, rain drop, soil erosion, sheet crosion, micromechanics of soil
dust cloud hypothesis, binary stars, photophoresic collapse, angular momentum, origin of the Eart		erosion 1948 Nov. p. 40-45
collapse, angular momentum, origin of the	52 Oct p 53-61 [833]	embry o-graft experiments, regeneration cell differentiation, cockroach
thermonuclear reaction, stellar evolution, university	e, isotopes, 'synthetic'	embryonic development, newt, biological form 1977 July p 66-81 [1363]
elements, particle accelerator, experimental asti	rophysics 1956 Sept p 82-91	embryological 'organizer', embryonic development, cell differentiation
t	chain, autotrophs.	Cartesian diver, fundamental research, How do cells differentiate?
ecology, energy cycle, biomass, solar energy, food	1958 Apr p 83–92	1953 Sept. p. 108-116
heterotrophs, the ecosphere	Olber's paradox.	cell differentiation, embryonic development blastula, gastrula, fertilization, ectoderm, mesoderm endoderm science history, review
world lines, curvature of space, red shift, galacti		of classical embryology 1957 Nov. p. 79-88 [103]
evolutionary universe, genesis	1934 Mai p 34-03	ombriology, embryonic development, regeneration nerve circuits, reflex
-		arc, 'hard-wiring' of nervous system 1959 Nov p 68-75 [72]

embry onic cells, muscle tissue, cell differentiation, cell culture, clone,	ACTH, child development, dwarfism, growth hormone, deprivation
origin of muscle in embryonic development 1964 Aug p 61-66	dwarfism, 'bone age', anorexia nervosa 1972 July p 76-82 [1253]
embry onic development, dedifferentiation of tissue cells, regeneration,	emotional development, fear, comparative psychology, learning, influence
cancer 1949 Dec p 22–24	of early environment, experiments with dogs
observed in the chick embryo 1950 Feb p 52–55	1956 Jan p 38-42 [469]
protozoon, cell differentiation, regeneration, protozoon as model for	comparative psychology, parental care, abnormal behavior, maternal
embryological study 1953 Mar p 76–82	deprivation, early experience and emotional development,
cell differentiation, embryological 'organizer', Cartesian diver,	experiments with rats 1963 June p 138–146 [478]
fundamental research, How do cells differentiate9	emotional illness, Oedipus complex, psychoanalysis 1949 Jan p 22-27
1953 Sept p 108-116	group psychotherapy, psychiatry 1950 Dec p 42–45 [449]
plutonium, ultra-microchemistry, cytology, chemistry, isolation of	mental health, schizophrenia, epidemiology, family, psychosis, income
plutonium established a new research technology	status 1954 Mar p 38–42 [441]
1954 Feb p 76–81	acetylcholine, hormone, nerve impulse, serotonin, synapse,
nerve regeneration, vision, learning, visual perception, inborn 'hard	neurotransmitters, central nervous system, physiological psychology,
wiring' of nerve circuitry 1956 May p 48-52 [1090]	chemical mediation of nerve impulses 1957 Feb p 86–94
cleft palate, congenital anomalies, fetal injury, teratogenesis, rubella,	'truth' drugs, psychoanalysis, psychoactive drugs, psychiatry, clinical use of psychoactive drugs 1960 Mar p 145–154 [497]
teratology 1957 Oct p 109–116	use of psychoactive drugs 1960 Mar p 145–154 [497] schizophrenia, psychoanalysis, psychiatry, psychosis, neurosis, double
cell differentiation, blastula, gastrula, fertilization, ectoderm,	bind, taxonomy of emotional illness, family therapy
mesoderm, endoderm, embryological 'organizer', science history, review of classical embryology 1957 Nov p 79–88 [103]	1962 Aug p 65–74 [468]
review of classical embryology 1957 Nov p 79-88 [103] salamander, regeneration, frog, nerve fibers, role of nerve fibers in	education, poverty, group behavior, rural poverty, community action,
	social psychology, study of community regeneration
regeneration 1958 Oct p 79-88 cell differentiation, feedback, tissue specialization 1958 Dec p 36-41	1965 May p 21–27 [634]
heart embryology, mesoderm, first heartbeat 1959 Mar p 87-96 [56]	behavioral psychology, child psychiatry, autism, schizophrenia
tissue culture, tissue differentiation, dissociated cells, reassembly of	1967 Mar p 78–86 [505]
dissociated tissue cells 1959 May p 132–144	group therapy, therapeutic community, role-channeling
regeneration, nerve circuits, embryology, reflex arc, 'hard-wiring' of	1971 Mar p 34-42 [534]
nervous system 1959 Nov p 68–75 [72]	community mental-health centers, mental health, psychiatric hospital
cell differentiation, tissue specialization, 'lampbrush' chromosome,	population, psychoactive drugs, psychotherapy, psychiatry,
zygote, fertilization, ovum, clone, cytology, how cells specialize	psychoanalysis 1973 Sept p 116-127
1961 Sept p 124–140	community mental-health centers, skid row, drug addiction,
cell aggregation, tissue differentiation, cell 'recognition', cytology, how	psychoactive drugs, 'deinstitutionalization' of the emotionally ill
cells associate 1961 Sept p 142–165	1978 Feb p 46-53 [581]
oocytogenesis, meiosis, mitosis, mammalian eggs, chromosomal	EMP: electromagnetic pulse
anomalies, ovum, in vitro fertilization 1966 Aug p 72-81 [1047]	EMP effect, arms control, atomic test ban, 'fireball blackout',
cell differentiation, pancreas, mesoderm, endoderm, tissue culture	underground nuclear explosions, strategic weapons
1969 Mar p 36-44 [1136]	1972 Nov p 15–23 [342]
mutosis, ovum, fertilization, meiosis, blastocyst, human embryos in the	emphysema, bronchitis, air pollution, public health, smog environmental
laboratory 1970 Dec p 44-54 [1206] calcium ion activator, cell motility, cell shape, microfilaments,	health, US cities, smog and public health 1961 Oct p 49-57 [612] acute respiratory failure, intensive care, tracheostomy, lung, alveolar
microtubules 1971 Oct p 76–82 [1233]	collapse, pathogenesis and treatment of acute respiratory failure
brain circuitry, nerve cells, neuronal specificity, visual cortex, Xenopus	1969 Nov p 23–29
laevis 1973 Feb p 26–35 [1265]	employment, armed forces of US, arms production 1951 Sept p 89-99
regeneration, biological form, cell differentiation, cellular polarity,	pluralistic economy, public sector, private-enterprise sector,
Hydra, morphogenesis, morphogens 1974 Dec p 44-54 [1309]	productivity, US economy, not-for-profit sector
crystals, calcute, calcum carbonate crystals, crystal structure, sea	1976 Dec p 25-29
urchin embryo 1977 Apr p 82–92	nearly full 1951 Sept p 49
regeneration, cell differentiation, cockroach, embryo graft experiments,	employment by industry, engineering manpower, labor force, disciplinary
newt, biological form 1977 July p 66–81 [1363]	distribution 1951 Sept p 65–68
cell motility, wound healing, cell tracks, tubulin, mitotic apparatus, cell motion made visible to naked eye 1978 Apr p 68–76 [1386]	employment by sector, science manpower, disciplinary distribution, labor
	omplement levels Johan force many average at 1951 Sept p 71–76
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391]	employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43-51 [701]
feedback control 1952 Oct p 42	employment policy, economic development, Japan, investment, debt
differentiation inducers 1962 Apr p 77	financing, government-business relations, Japan's economic growth
emergency medicine, homeostasis, wound shock, body fluids, shock,	1970 Mar p 31–37
treatment of shock 1958 Dec p 115-124	emulsification, ultrasonics, interferometry, nondestructive testing, sonar
eminent domain, urban renewal, slums, cities, housing, relocation, urban	1954 May p. 54-63
planning, US experience with Federal subsidy of urban renewal	emulsion, photography, silver halide, photographic development,
1965 Sept p 194–204	photochemistry 1952 Nov p 30–33
emission nebulae, color photography, interstellar gas, ionization, nebular	enamel, teeth, dentin, metabolism fluoridation 1953 June p 38-42
luminosity 1974 Oct p 34-43 emission standards, air pollution, Clean Air Act, Environmental	enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46
Protection Agency 1973 June p 14–21	encephalitis, virus disease, animal vectors, influenza virus
emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome	1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease,
doubling, plant breeding, origin and perfection of wheat	insect vectors
1953 July p 50–59	behavior, hyperactive child, temperament, genetic disease
emotion, pupil size, attitude, eye, attention, effect of attitude on pupil size	amphetamines, possibly innate disease syndrome
1965 Apr p 46–54 [493]	1970 Apr p 04 08 15271
emotional behavior, conditioned reflex, neurosis, operant conditioning.	antigen variation, disease, medical history influenza virus, pandamina
Payloy, psychology, thyroidectomy, stress neurosis conditioned reflex is shown to be a neurosis 1954 Jan. p. 48-57 [418]	virus disease, animal vectors, Hong Kong flu, swine flu
emotional deprivation, child psychiatry, autism schizophrenia,	1977 Dec 88 106 transi
psychoanalysis, 'mechanical boy' 1959 Mar p. 116–127 [430]	Lateration of the whale,
behavioral psychology, maternal deprivation, thesis monkeys	international willing Commission 1066 A 12 22
surrogate mother, infant monkey 'lovc' 1959 June p 68-74 [429]	Death Valley, desert pupilsh, fish, species isolation
• • •	1971 Nov. p. 104 110 (1994)

1971 Nov p 104-110 [1236]

collectors

endocranial casts, African hominids, brain evolution, fossil hominid energy cycle, ecology, biomass, solar energy, food chain, element brains, hominid, human brain, pongid brains abundance, autotrophs, heterotrophs, the ecosphere 1974 July p 106-115 [686] brain evolution, brain size, cephalization index, intelligence, 1958 Apr p 83-92 wind, solar radiation, biosphere, albedo, atmosphene circulation paleoneurology 1976 Jan p 90-101 [568] elimate, occan circulation, terrestrial radiation, carbon dioxide endocrine function, found in arteries 1951 Sept p 52 'window', Earth energy cycle endocrine hormones, cell receptors, gene regulation, hormonal action, 1970 Sept p 54-63 [1189] solar radiation, photosynthesis, biosphere, agricultural ecosystem protein synthesis, steroid hormones 1976 Feb p 32-43 [1334] climax ecosystem, ecosystem, food chain, respiration, biosphere endocrine system, physiology, nervous system, respiration, nerve impulse, energy cycle musele contraction, science, physiology 1900-1950 1970 Sept p 64-74 [1190] celestral energy, cosmological 'hangups', power, radiation energy, 1950 Sept p 71-76 entropy per unit energy, gravitational energy, stellar evolution, pituitary gland, ACTH, gonadotrophic hormones, metabolic hormones, thermonuclear energy 1971 Sept p 50-59 [662] growth hormone, the master gland 1950 Oct p 18-22 Eskimo, liunting societies, food chain, seal, power, Baffin Island, ACTH, hormone, sexual characteristics, growth, thyroid-stimulating ecosystem 1971 Sept p 104-115 [665] hormone, follicle-stimulating hormone, prolactin, androgens, animal husbandry, ecosystem, agricultural system, power, New Guinea estrogens, secondary sexual characteristics, human physiology, tropical agriculture 1971 Sept p 116-132 [666] chemical integrators of the body 1957 Mar p 76-88 [1122] industrial society, US economy, power, ecosystem, environmental brain function, cyclic AMP, dopamine, messenger molecules, nervous 1971 Sept p 134-144 [667] protection system, neurotransmitters, L-DOPA treatment, Parkinson's disease, biosphere, photosynthesis, respiration, power, radiation energy, solar 'second messengers', brain endocrinology radiation, terrestrial radiation 1971 Sept p 88-100 [664] 1977 Aug p 108-119 [1368] climatic change, coral reefs, fossil reefs, marine ecosystems, reef endocrinology, cockroach, woodroach, eockroach as laboratory animal 1972 June p 54-65 [901] evolution 1951 Dec p 58-63 nitrogen fertilizer, nutrient cycle, soil structure, food and agriculture, endoderm, cell differentiation, embryonic development, blastula, gastrula, 1976 Sept p 74-86 food chain fertilization, ectoderm, mesoderm, embryological 'organizer', science forest, ecosystem, partitioning of energy in a New England forest history, review of classical embryology 1957 Nov p 79-88 [103] 1978 Mar p 92-103 [1384] cell differentiation, embryonic development, pancreas, mesoderm, energy demand, breeder reactor, fission reactor, uranium fission, tissue culture 1969 Mar p 36-44 [1136] 1967 May p 25-33 plutonium, 'third generation' breeder reactors endodorphins, brain function, drug action, drug addiction, enkephalins, fission reactor, electric power, nuclear power, fossil fuel, energy internal opiates, opiate receptors, brain endocrinology economics, history and prospects of nuclear power in US 1977 Mar p 44-56 1968 Feb p 21-31 internal opiates 1977 Feb p 50 thermal pollution, Industrial Revolution, biosphere, energy technology, endogamous group, Dunkers, genetic drift, ear lobes, blood typing, 'hitchfossil fuel cycle, carbon dioxide, industrial emissions, modification of 1970 Sept p 174-190 [1197] hiker's' thumb 1953 Aug p 76-81 [1062] natural cycles by man endoplasmic reticulum, cell nucleus, cytoplasm, cell organelle, breeder reactor, nuclear power, fast neutron reactor, uranium cycle, chromosome, cell physiology, RNA, DNA, cytology, nuclear control thorium cycle, liquid-metal reactor, fission reactor 1970 Nov p 13-21 (339) of cell 1960 Jan p 126-136 eell membrane, electron microscopy, myelin sheath, mitoehondria, energy transformation, fuel conversion efficiency, power, pnme movers, steam turbines, magnetohydrodynamics, gas turbine, nuclear membrane, electron microscope study of membranes in cell internal combustion engine, fuel cell, solar cells, power, nuclear 1962 Apr p 64-72 [151] power, comparative efficiencies of energy transformation pathways cell membrane, cell secretion, exocytosis, membrane fusion, fluid-1971 Sept p 148-160 [668] mosaie model of membrane 1975 Oct p 28-37 [1328] in industrial civilization energy economics, Middle East oil, petroleum resources, Persian Gulf endosymbiosis, cell evolution, cell organelle, chloroplast, eukaryotic cells, fields, economic development, Iran, Iraq, Saudi Arabia mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella, 1948 Sept p 9-15 1971 Aug p 48-57 [1230] plastids nuclear power, cost assessment, capital cost, competitive with fossil endothermy, birds, dinosaurs, ectothermy, metabolism, birds descended 1951 Jan p 32-38 1975 Apr p 58-78 [916] fuels from dinosaurs coal, energy resources, natural gas, oil reserves, fossil fuel, impending endotoxins, bacterial infection, exotoxins, toxins, bacterial toxin, effects 1956 Oct p 43-49 1964 Mar p 36-45 petroleum shortage of endotoxins fission reactor, breeder reactor, nuclear power, atomic power in UK 1964 May p 64 endrin, insecticide, implicated in fish deaths 1958 Mar p 29-35 energy, heat, thermodynamics, quantum mechanics, entropy, equation of fission reactor, nuclear power, fuel rods, design of reactor fuel elements state, black body radiation, temperature, What is heat? 1959 Feb p 37-43 1954 Sept p 58-63 battery, fuel cell, electric power generation, energy transformation matter, momentum, high-energy physics, conservation law, 1959 Oct p 72-78 direct conversion chemical to electric energy conservation laws in particle physics 1963 Oct p 36-45 fission reactor, breeder reactor, nuclear power, thorium cycle, uranium power machines, mechanical energy, biological energy, economic 1960 Jan p 82-94 development, power, introduction to a single-topic issue on energy cycle, breeder reactor development tar sands, oil shales petroleum shale retorts, potential liquid-1971 Sept p 36-49 [661] and power 1966 Feb p 21-29 1974 June p 48 hydrocarbon reserves input to US food system fission reactor, energy demand, electric power, nuclear power, fossil energy conservation, nuclear power, fossil fuel, solar energy, synthetic fuel, history and prospects of nuclear power in US 1974 Jan p 20-29 [684] fuels, energy policy of US 1968 Fcb p 21-31 automobiles, engine efficiency, fuel consumption 1975 Jan p 34-44 energy storage, economic geography, pipelines, power transmission, energy resources, nuclear reactor, fission reactor, nuclear-waste disposal, atomic-weapon proliferation, Rasmussen report tankers, power, economic geography of energy production 1971 Sept p 164-175 [669] 1976 Jan p 21-31 [348] distribution and consumption decision theory, power production, icchnology assessment, tort law, consumer-product research, consumer protection household 1971 Scpt p 191-200 [671] economic planning market process appliances, product safety, product technology, N B S coal hydrogenation, coal liquefaction energy resources oil and gas 1977 Dec p 47-53 1976 May p 24-29 from coal 1977 Apr p 57 in appliances, buildings energy emission, phosphors absorption line, energy transformation energy consumption, fossil fuel, petroleum reserves, coal reserves, liquid-1954 Oct p 62-66 [237] fuel consumption, shale, tar sands, coal liquefaction, the fuel energy exchange, ocean microstructure, ocean circulation, sea water 1949 Dec p 32-39 salinity, oceanic stirring, sea-water temperature energy resources, fission fuels, power, fossil fuel, fusion fuels 1973 Fch p 64-77 [905] geothermal energy, solar energy, tidal energy energy-information interaction, entropy in communication power, 1971 Sept p 60-70 [663] information flow, information theory, thermodynamics energy conversion, solar energy, light absorption, pigments solar 1971 Sept p 179-188 [670] 1956 June p 97-106

energy levels, radar, microwaves, spectroscopy, molecular bonds,	convection currents plants, thermoregulation, solar radiation, thermal
coherent radiation, resonance absorption, quantum jumps, quantum	radiation, transpiration, heat transfer in plant leaves
electrodynamics, time-keeping, foundation of maser, laser	1965 Dec p 76-84 [1029]
10.10.0	energy transformation, ATP, muscle contraction, fermentation, citric-acid
	cycle 1953 Apr p 85–92
solid state physics, crystal structure, X-ray diffraction, ionic bonds,	actinomy osin, mechanochemical engine muscle contraction
covalent bonds, metallic bonds, molecular bonds, the nature of	
solids 1952 Dec p 39-49 [249]	1954 Mar p 72–76
matter, wave-particle duality, electromagnetic force, nuclear forces,	heat, propulsion aerothermodynamics, laminar flow, turbulence, high
gravitation, field theory, fundamental research, quantum jumps,	temperatures propulsion 1954 Sept p 120–131
corpuscular streams, what is matter? 1953 Sept p 52-57 [241]	phosphors, absorption line, energy emission 1954 Oct p 62-66 [237]
elementary particles, atom, nucleus, high-energy physics, spectroscopy,	solar battery, solid state physics, semiconductor, photoelectric effect
	1955 Dec p 102–110
	cosmology, universe, steady-state universe, according to Hoyle
coherent radiation, interference, Brillouin scattering, laser light	1956 Sept p 157–166
1968 Sept p 120–136	
microwaves, interstellar matter, maser, hydroxyl radical, infrared	battery fuel cell, electric power generation, energy economics direct
astronomy, protostars, interferometry 1968 Dec p 36-44	conversion chemical to electric energy 1959 Oct p 72–78
atomic nucleus, chemical bond, gamma radiation, molecular structure,	cytology, ATP, mitochondrion, citric-acid cycle, glycolysis oxidative
Mossbauer spectroscopy 1971 Oct p 86–95	phosphorylation, membrane, energy transformation in the cell
Doppler effect, gas laser, laser spectroscopy, spectroscopy	1960 May p 102–114
1973 Dec p 69–85	nuclear power, recycling, materials fusion reactor, fusion torch, plasma
helium-cadmium laser, helium-selenium laser, laser, metal-gas	containment, magnetohydrodynamics 1971 Feb p 50-64 [340]
	energy demand, fuel-conversion efficiency, power, prime movers, steam
	turbines, magnetohydrodynamics, gas turbine, internal combustion
energy output, bird flight, metabolism, wind tunnel experiments, gull.	
budgengar 1969 May p 70-78 [1141]	engine, fuel cell, solar cells, power, nuclear power, comparative
energy policy of U.S.A, the coal option 1978 Jan p 64	efficiencies of energy transformation pathways in industrial
energy resources, solar energy, residential heating, windows, low-	civilization 1971 Sept p 148–160 [668]
potential energy, hot water, Sun can supply most of the 30 percent of	engine efficiency, automobiles, energy conservation, fuel consumption
fuel energy consumed in domestic heating 1951 Feb p 60-65	1975 Jan p 34-44
oil shales, shale rotors, mining, fossil fuel, oil from shales	engineering curriculum, US recommendations 1956 June p 56
1952 Feb p 15–19	engineering failure, molasses-tank disaster 1972 Mar p 44
coal, natural gas, oil reserves, energy economics, fossil fuel, impending	engineering manpower, labor force, employment by industry, disciplinary
- 12 10	distribution 1951 Sept p 65–68
	shortage of 1951 July p 28
economic development, energy technology, industrialization.	
population, fuel consumption, energy requirements and resources for	
economic development 1963 Sept p 110-126	in short supply 1956 May p 54
energy consumption, fission fuels, power, fossil fuel, fusion fuels,	enrollment down 1960 Aug p 72
geothermal energy, solar energy, tidal energy	engineers, scientists, low on happiness scale 1955 Apr p 50
1971 Sept p 60-70 [663]	English horn, musical instruments, vibrating air column, clarinet, oboe,
coal gasification, gas turbine, pollution control, oil gasification	flute, bassoon, saxophone, physics of the wood winds
1972 Oct p 26–35	1960 Oct p 144–154
hydrogen, electrolyzer technology, hydrogen-energy economy, liquified	English Kinsey report, human sexual behavior, cousins 1950 Apr p 32
hydrogen, cryogenic storage, fuel cell 1973 Jan p 13-21	English medieval village, medieval life, Wharram Percy site
coal gasification, gasification processes, Lurgi process, Hygas process,	1976 Oct p 116–128
synthane process, CO ₂ acceptor process, coal technology	English poetry, Copernican revolution, 'Space Rapture'
1974 Mar p 19–25	1977 June p 120–129 [367]
energy conservation, nuclear reactor, fission reactor, nuclear-waste	Eniwetok tests, atomic bomb 1949 Oct p 20–21
disposal, atomic-weapon proliferation, Rasmussen report	enkephalins, brain function drug action, drug addiction, endodorphins,
1976 Jan p 21–31 [348]	internal opiates, opiate receptors brain endocrinology
coal hydrogenation, coal liquefaction, energy economics, oil and gas	1977 Mar p 44-56
from coal 1976 May p 24-29	enriched uranium, nuclear power, fission reactor, heavy-water reactor,
fuel imports, liquid natural gas, technology assessment, risk estimation,	homogeneous reactor, A E C program 1951 Apr p 43-50
tankers, LNG 1977 Apr p 22–29	Enrico Fermi Award, Atoms for Peace Award, 1958 winners
petroleum, oil reserves, oil consumption, OPEC, finite horizon of	1959 Jan p 62
petroleum energy economy 1978 Mar p 42-49 [930]	enteroviruses, poliomyelitis virus Coxsackie virus, tissue culture, echo
Athabasca tar sands 1948 Nov p 24	viruses, epidemiology, benign and infectious intestinal viruses
petroleum alternatives 1974 Feb p 43	1959 Feb p 88-97
windmill power 1974 May p 61	entomology, bacteriology, biological pest control, agricultural pest
nuclear power as principal option 1975 May p 42	insecticide, insect physiology, virology, living insecticides
energy plantations 1976 Mar p 60B	1956 Aug n 96-104
energy storage, energy economics, economic geography, pipelines, power	silkworm, juvenile hormone, insect metamorphosis, hormone arrests
transmission, tankers, power, economic geography of energy	development 1958 Feb p 67–74
production, distribution and consumption	
1971 Sept p 164-175 [669]	photoperiodicity, insect diapause. Lenidoptera, hibernation governed
	photoperiodicity, insect diapause, Lepidoptera, hibernation governed by photoperiodicity
automobile propulsion, electric power generation, composite majerials	photoperiodicity, insect diapause, Lepidoptera, hibernation governed by photoperiodicity
automobile propulsion, electric power generation composite materials	photoperiodicity, insect diapause, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108-118 insect venom Chaga's disease, assassin bugs, predator-prey
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automobile propulsion, electric power generation composite materials materials technology, flywheels 1973 Dec p 17-23 energy technology, economic development, industrialization, population, fuel consumption, energy resources, energy requirements and	photoperiodicity, insect diapause, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect venom Chaga's disease, assassin bugs, predator-prey relationship, natural history 1960 June p 72–78 Africa termite, insect behavior, air conditioning airconditioned termite nests
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automobile propulsion, electric power generation composite materials materials technology, flywheels 1973 Dec p 17-23 energy technology, economic development, industrialization, population, fuel consumption, energy resources, energy requirements and resources for economic development 1963 Scpt p 110-126 energy demand thermal pollution Industrial Resolution, biosphere	photoperiodicity, insect diapause, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect venom Chaga's disease, assassin bugs, predator-prey relationship, natural history 1960 June p 72–78 Africa termite, insect behavior, air conditioning airconditioned termite nests 1961 July p 138–145 aerial plankton, animal migration species dispersion insect physiology, agricultural pest, wind-borne dispersal of species
automobile propulsion, electric power generation composite materials materials technology, flywheels 1973 Dec p 17-23 energy technology, economic development, industrialization, population, fuel consumption, energy resources, energy requirements and resources for economic development 1963 Scpt p 110-126 energy demand thermal pollution Industrial Revolution, biosphere fossil fuel cycle, carbon dioxide, industrial emissions, modification of	photoperiodicity, insect diapause, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect venom Chaga's disease, assassin bugs, predator-prey relationship, natural history 1960 June p 72–78 Africa termite, insect behavior, air conditioning airconditioned termite nests 1961 July p 138–145 aerial plankton, animal migration species dispersion insect physiology, agricultural pest, wind-borne dispersal of species
automobile propulsion, electric power generation composite materials materials technology, flywheels 1973 Dec p 17–23 energy technology, economic development, industrialization, population, fuel consumption, energy resources, energy requirements and resources for economic development 1963 Scpt p 110–126 energy demand thermal pollution Industrial Revolution, biosphere fossil fuel cycle, carbon dioxide, industrial emissions, modification of natural cycles by man 1970 Sept. p. 174, 190 [1197]	photoperiodicity, insect diapause, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108-118 insect venom Chaga's disease, assassin bugs, predator-prey relationship, natural history 1960 June p 72-78 Africa termite, insect behavior, air conditioning airconditioned termite nests 1961 July p 138-145 aerial plankton, animal migration species dispersion insect physiology, agricultural pest, wind-borne dispersal of species 1963 Dec p 132-138 aquatic insect, insect eggshell respiration, adaptation selective
automobile propulsion, electric power generation composite materials materials technology, flywheels 1973 Dec p 17–23 energy technology, economic development, industrialization, population, fuel consumption, energy resources, energy requirements and resources for economic development 1963 Scpt p 110–126 energy demand thermal pollution Industrial Revolution, biosphere fossil fuel cycle, carbon dioxide, industrial emissions, modification of natural cycles by man 1970 Sept p 174–190 [1197] cooling towers, heat exchange, industrial cooling, microchimate	photoperiodicity, insect diapause, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect venom Chaga's disease, assassin bugs, predator-prey relationship, natural history 1960 June p 72–78 Africa termite, insect behavior, air conditioning airconditioned termite nests 1961 July p 138–145 aerial plankton, animal migration species dispersion insect physiology, agricultural pest, wind-borne dispersal of species aquatic insect, insect eggshell respiration, adaptation selective permeability of insect 1970 Aug p 84–91 [1187]
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automobile propulsion, electric power generation composite materials materials technology, flywheels 1973 Dec p 17–23 energy technology, economic development, industrialization, population, fuel consumption, energy resources, energy requirements and resources for economic development 1963 Scpt p 110–126 energy demand thermal pollution Industrial Revolution, biosphere fossil fuel cycle, carbon dioxide, industrial emissions, modification of natural cycles by man 1970 Sept p 174–190 [1197] cooling towers, heat exchange, industrial cooling, microchimate	photoperiodicity, insect diapause, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect venom Chaga's disease, assassin bugs, predator-prey relationship, natural history 1960 June p 72–78 Africa termite, insect behavior, air conditioning airconditioned termite nests 1961 July p 138–145 aerial plankton, animal migration species dispersion insect physiology, agricultural pest, wind-borne dispersal of species aquatic insect, insect eggshell respiration, adaptation selective permeability of insect 1970 Aug p 84–91 [1187]

collectors

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endocranial easts, African hominids, brain evolution, lossil hominid
                                                                                      energy cycle, ecology, biomass, solar energy, food chain, element
       brains, hominid, human brain, pongid brains
                                                                                           abundance, autotrophs, heterotrophs, the ecosphere
                                                    1974 July p. 106-115 [686]
    brain evolution, brain size, cepitalization index, intelligence,
                                                                                                                                             1958 Apr. p. 83-92
                                                                                        wind, solar radiation, biosphere, albedo, atmospheric circulation,
       paleoneurology
                                                     1976 Jan. p. 90-101 [568]
                                                                                           climate, ocean eirculation, terrestrial radiation, carbon dioxide
  endoerine function, found in arteries
                                                               1951 Sept. p. 52
                                                                                           'window', Earth energy cycle
  endocrine hormones, cell receptors, gene regulation, hormonal action,
                                                                                                                                      1970 Sept. p. 54-63 [1189]
                                                                                        solar radiation, photosynthesis, biosphere, agricultural ecosystem,
       protein synthesis, steroid hormones
                                                     1976 Feb. p. 32-43 [1334]
                                                                                          elimax ecosystem, ecosystem, food chain, respiration, biosphere
 endocrine system, physiology, nervous system, respiration, nerve impulse,
                                                                                          energy cycle
       muscle contraction, science, physiology 1900-1950
                                                                                                                                     1970 Sept. p. 64-74 [1190]
                                                                                       celestial energy, cosmological 'hangups', power, radiation energy,
                                                           1950 Sept. p. 71-76
                                                                                          entropy per unit energy, gravitational energy, stellar evolution,
    pituitary gland, ACTH, gonadotrophie hormones, metabolie hormones,
                                                                                          thermonuclear energy
                                                                                                                                      1971 Sept. p. 50-59 [662]
       growth hormone, the master gland
                                                            1950 Oct. p. 18-22
                                                                                       Eskimo, hunting societies, food chain, seal, power, Baffin Island,
    ACTH, hormone, sexual characteristics, growth, thyroid-stimulating
                                                                                          ccosystem
                                                                                                                                    1971 Sept. p. 104-115 [665]
      hormone, follicle-stimulating hormone, prolactin, androgens,
                                                                                       animal husbandry, ecosystem, agricultural system, power, New Guinea
      estrogens, secondary sexual characteristics, human physiology,
                                                                                          tropical agriculture
                                                                                                                                   1971 Sept. p. 116-132 [666]
      chemical integrators of the body
                                                   1957 Mar. p. 76-88 [1122]
                                                                                       industrial society, U.S. economy, power, ecosystem, environmental
    brain function, cyclic AMP, dopamine, messenger molecules, nervous
                                                                                                                                   1971 Sept. p. 134-144 [667]
                                                                                         protection
      system, neurotransmitters, L-DOPA treatment, Parkinson's disease,
                                                                                       biosphere, photosynthesis, respiration, power, radiation energy, solur
       'second messengers', brain endocrinology
                                                                                         radiation, terrestrial radiation
                                                                                                                                    1971 Sept. p. 88-100 [664]
                                                 1977 Aug. p. 108-119 [1368]
                                                                                      climatic change, coral reefs, fossil reefs, marine ecosystems, reef
 endocrinology, cockroach, woodroach, cockroach as laboratory animal
                                                                                                                                     1972 June p. 54-65 [901]
                                                                                         evolution
                                                          1951 Dec. p. 58-63
                                                                                      nitrogen fertilizer, nutrient cycle, soil structure, food and agriculture,
 endoderm, cell disserentiation, embryonic development, blastula, gastrula,
                                                                                                                                          1976 Sept. p. 74-86
                                                                                         food chain
      fertilization, ectoderm, mesoderm, embryological 'organizer', science
                                                                                      forest, ecosystem, partitioning of energy in a New England forest
      history, review of classical embryology
                                                    1957 Nov. p. 79-88 [103]
                                                                                                                                  1978 Mar. p. 92-103 [1384]
   cell differentiation, embryonic development, pancreas, mesoderm,
                                                                                    energy demand, breeder reactor, fission reactor, uranium fission,
      tissue culture
                                                   1969 Mar. p. 36-44 [1136]
                                                                                                                                         1967 May p. 25-33
                                                                                        plutonium, 'third generation' breeder reactors
 endodorphins, brain function, drug action, drug addiction, enkephalins,
                                                                                      fission reactor, electric power, nuclear power, fossil fuel, energy
      internal opiates, opiate receptors, brain endocrinology
                                                                                        economies, history and prospects of nuclear power in U.S.
                                                          1977 Mar. p. 44-56
                                                                                                                                          1968 Feb. p. 21-31
   internal opiates
                                                              1977 Feb. p. 50
                                                                                      thermal pollution, Industrial Revolution, biosphere, energy technology,
 endogamous group, Dunkers, genetic drift, ear lobes, blood typing, hitch-
                                                                                        fossil fuel cycle, carbon dioxide, industrial and in the
                                                                                                                               1970 Sept. p. 174 (17)
      hiker's' thumb
                                                  1953 Aug. p. 76-81 [1062]
                                                                                        natural cycles by man
 endoplasmic reticulum, cell nucleus, cytoplasm, cell organelle,
                                                                                     breeder reactor, nuclear power, fast neutron reactor, uranium cycle,
      chromosome, cell physiology, RNA, DNA, cytology, nuclear control
                                                                                        thorium cycle, liquid-metal reactor, fission reactor
                                                                                                                                   1970 Nov. p. 13-21 [339]
                                                        1960 Jan. p. 126-136
   cell membrane, electron microscopy, myelin sheath, mitochondria,
                                                                                     energy transformation, fuel-conversion efficiency, power, prime
                                                                                       movers, steam turbines, magnetohydrodynamics, gas turbine,
      nuclear membrane, electron microscope study of membranes in cell
                                                                                       internal combustion engine, fuel cell, solar cells, power, nuclear
                                                    1962 Apr. p. 64-72 [151]
                                                                                       power, comparative efficiencies of energy transformation pathways
   cell membrane, cell secretion, exocytosis, membrane fusion, fluid-
                                                                                                                                1971 Sept. p. 148-160 [668]
                                                   1975 Oct. p. 28-37 [1328]
      mosaic model of membrane
                                                                                       in industrial civilization
                                                                                  energy economics, Middle East oil, petroleum resources, Persian Gulf
endosymbiosis, cell evolution, cell organelle, chloroplast, eukaryotic cells,
                                                                                       fields, economic development, Iran, Iraq, Saudi Arabia
     mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella,
                                                                                                                                         1948 Sept. p. 9-15
                                                  1971 Aug. p. 48-57 [1230]
      plastids
                                                                                    nuclear power, cost assessment, capital cost, competitive with fossil
endothermy, birds, dinosaurs, ectothermy, metabolism, birds descended
                                                                                                                                        1951 Jan. p. 32-38
                                                   1975 Apr. p. 58-78 [916]
                                                                                      fuels
     from dinosaurs
                                                                                    coal, energy resources, natural gas, oil reserves, fossil fuel, impending
endotoxins, bacterial infection, exotoxins, toxins, bacterial toxin, effects
                                                                                                                                       1956 Oct. p. 43-49
     of endotoxins
                                                        1964 Mar. p. 36-45
                                                                                      petroleum shortage
                                                                                    fission reactor, breeder reactor, nuclear power, atomic power in U.K.
endrin, insecticide, implicated in fish deaths
                                                            1964 May p. 64
                                                                                                                                       1958 Mar. p. 29-35
energy, heat, thermodynamics, quantum mechanics, entropy, equation of
                                                                                   fission reactor, nuclear power, fuel rods, design of reactor fuel elements
     state, black body radiation, temperature, What is heat?
                                                                                                                                       1959 Feb. p. 37-43
                                                       1954 Sept. p. 58-63
                                                                                   battery, fuel cell, electric power generation, energy transformation,
   matter, momentum, high-energy physics, conservation law,
                                                                                                                                       1959 Oct. p. 72-78
     conservation laws in particle physics
                                                        1963 Oct. p. 36-45
                                                                                      direct conversion chemical to electric energy
                                                                                   fission reactor, breeder reactor, nuclear power, thorium cycle, uranium
   power machines, mechanical energy, biological energy, economic
                                                                                                                                       1960 Jan. p. 82-94
     development, power, introduction to a single-topic issue on energy
                                                                                     cycle, breeder reactor development
                                                                                   tar sands, oil shales, petroleum, shale retorts, potential liquid-
                                                 1971 Sept. p. 36-49 [661]
     and power
                                                                                                                                      1966 Feb. p. 21-29
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                                                                                     hydrocarbon reserves
   input to U.S. food system
                                                                                   fission reactor, energy demand, electric power, nuclear power, fossil
energy conservation, nuclear power, fossil fuel, solar energy, synthetic
                                                                                     fuel, history and prospects of nuclear power in U.S
                                                  1974 Jan. p. 20-29 [684]
     fuels, energy policy of U.S.
                                                                                                                                      1968 Feb p. 21-31
   automobiles, engine efficiency, fuel consumption
                                                        1975 Jan. p. 34-44
                                                                                  energy storage, economie geography, pipelines, power transmission,
  energy resources, nuclear reactor, fission reactor, nuclear-waste
                                                                                    tankers, power, economic geography of energy production.
     disposal, atomic-weapon proliferation, Rasmussen report
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                                                  1976 Jan. p. 21-31 [348]
                                                                                  decision theory, power production, technology assessment, tort law,
  consumer-product research, consumer protection, household
                                                                                                                            1971 Sept p 191 200 [671]
                                                                                    economie planning, market process
     appliances, product safety, product technology, N.B.S.
                                                                                 coal hydrogenation, coal liquefaction, energy resources, oil and gas
                                                       1977 Dec. p. 47-53
                                                                                                                                    1976 May p 24-29
                                                                                    from coal
                                                          1977 Apr. p. 57
                                                                               energy emission, phosphors, absorption line, energy transformation
  in appliances, buildings
energy consumption, fossil fuel, petroleum reserves, coal reserves, liquid-
                                                                                                                               1954 Oct p 62 66 [237]
     fuel consumption, shale, tar sands, coal liquefaction, the fuel
                                                                               energy exchange, ocean microstructure, ocean circulation, sea-water
                                                      1949 Dec. p. 32-39
                                                                                   salimty, oceanic stirring, sea-water temperature
     problem
  energy resources, fission fuels, power, fossil fuel, fusion fuels,
                                                                                                                              1973 Feb p 64 77 [905]
     geothermal energy, solar energy, tidal energy
                                                                               energy-information interaction, entropy in communication, power,
                                                1971 Sept. p. 60-70 [663]
                                                                                   information flow, information theory, thermodynamics
energy conversion, solar energy, light absorption, pigments, solar
                                                                                                                           1971 Sept p 179 188 [670]
                                                     1956 June p. 97-106
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disease, cholera, plague, yellow fever 1953 Feb p 22-27	equatorial rain forests, agricultural production, tropical climate,
poliomyelitis, gammaglobulin, immunity, blood fractionation, vaccine 1953 July p 25–29	laterization, developing countries, lateritic soil 1964 Nov p 96-102 [870]
Hutterites, mental health, psychosis, standard expectancy method 1953 Dec p 31-37 [440]	equivalent sets, infinity, set theory, cardinal number, Cantor 1952 Nov p 76-84
emotional illness, mental health, schizophrenia, family, psychosis,	ergonomics, psychology, instrument panel, pilot error, designing
income status 1954 Mar p 38-42 [441]	instrument panels for their users 1953 Apr p 74-82 [496]
suicide, psychoanalysis 1954 Nov p 88–96	ergot, mycology, fungi, wheat rust, potato blight, morel, amanita,
vaccine, poliomyelitis virus, antibody persistence 1955 Apr. p 42-44	Penicillium notatum, yeast, molds and men 1952 Jan p 28-32 [115]
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enteroviruses, poliomyelitis virus, Coxsachie virus, tissue culture, echo	volcanic sediments, petrified forests of Yellowstone
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malaria, filariasis, leishmaniasis, plague, yellow fever, typhus, animal	watershed, deforestation, deforestation experiment
infection and human disease 1960 May p 161–170	1970 Oct p 92–101 [1202] Earth evolution, plate tectorics, solar system 1975 Sept p 82–90
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1964 Jan p 79–86	architecture, sculpture, marble, limestone, atmospheric pollution,
human behavior, bubonic plague, public health, Black Death,	weathering, preservation of stone 1978 June p 126-136 [3012]
population history, long-term effects of plague, Europe 1348-50	erosion rate, US landmass 1964 Oct p 58
1964 Feb p. 114–121 [619]	erothrocyte, sickle cell disease, gene mutation, genetic disease, single
bacteria, flies, maggot, dysentery, virology, disease vector	gene-single aminoacid deletion 1958 Jan p 68-74 error-correcting codes, computer programming, computer technology,
1965 July p 92-99 congenital anomalies, genetic disease, hemophilia, mutation, in Queen	redundancy for error detection 1962 Feb p 96–108
Victoria's descendants 1965 Aug p 88–95	ery throcyte, blood plasma, blood fractionation, leukocyte, platelets,
atherosclerosis, cardiovascular disease, human nutrition, arteries,	centrifuge, blood transfusion, blood banks 1954 Feb p 54-62
cholesterol, coronary occlusion, diet, lipids, plaque, artery wall	metabolism, oxygen starvation, acclimatization, attitude adaptation
1966 Aug p 48–56	1955 Dec p 58–68
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1971 June p 92–101 [1223]	'anomalous' water, 'biological' water, blood, hemoglobin, water,
bacterial toxin, cholera, disease, medical care, sanitation, water supply	membrane permeability, osmosis, van 't Hoff law
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esophagal cancer 1974 May p 60 WHO, 'river blindness' in Africa 1975 Oct p 53	disease 1975 Apr p 44–50 [1319] escape response, marine invertebrates, starfish, limpets, scallop, prey-
WHO, 'river blindness' in Africa 1975 Oct p 53 river blindness in Africa 1975 Oct p 53	predator relationship, snail, chemical signals
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collagen 1969 June p 40–50 [1144]	guided behavior 1974 Mar. p 34–42 [1293]
epidermal ridges, dermatoglyphics, skin, chromosomal anomalies 1969 Dec p 72-84 [1164]	escape velocity, atmosphere, photosynthesis, volcanoes, water of crystallization, nitrogen, oxygen, origin and evolution of Earth's
epidermis, flagella contractile proteins, keratin, myosin, 'k m e i 'group,	
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motility in bacteria 1951 Jan p 20-24 cancer, ultraviolet radiation, melanocytes, suntanning, skin, vitamin D 1968 July p 38-46 epilepsy, blood-brain barner, brain metabolism, neurology,	atmosphere 1953 Aug p 82–86 [824] Escher's prints, art, optical illusion, perception of pictures, psychology, visual perception 1974 July p 90–104 [560] Eskimo, Aleuts, genocide, Aleutian Islands, Aleuts as 'Southern Eskimos' 1958 Nov p 112–124 New World archeology, Onion Portage site, Bering land bridge, human migration, Alaska, stone artifacts, gateway to America 1968 June p 24–33
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entropy per unit energy, eclestial energy, cosmological hanging, anaray	land to the state of the same
cycle, power, radiation energy, gravitational energy, stellar evolution	enzynie-substrate complex enzymes dialysis acrely as
thermonuclear energy 1971 Sept p 50–59 [662	1 1959 Aug p 119-125
enucleation, microsurgery, micromanipulator, cytosurgery	lysozyme, X-ray erystallography, protein folding amino-acid sequence
environment, biosphere, Earth, evolution, photosynthesis, atmosphere-	three-dimensional structure and action of lysozyme
hydrosphere cycles, introduction to single-topic issue on biosphere	1966 Nov p 78–90 [1055]
1970 Sent in 44–53 [1188]	enzymes, eatalysis, digestion, respiration fermentation, lock-and key theory, science history 1948 Dec p 28-39
intelligence, race, whites IQ, heredity, American Negro, heredity	co-enzymes, citric-acid cycle 1949 Sept p 48-50 [15]
population genetics, science policy, social psychology, twins, racial	biochemistry, yirus citric-acid cycle metabolism co-enzymes sulla
discrimination 1970 Oct p 19–29 [1199]	drugs, antibiotics, science, biochemistry 1900-1950
environmental carcinogens, carcinogenesis, cancer epidemiology, immune	1950 Sept p 62-68
response, gene mutation, virus discase, eancer prevention	fat metabolism, fatty acids, coenzyme A, ATP 1954 Jan p 32-36 [16]
1975 Nov p 64-78 [1330] environmental health, bronchitis, air pollution, emphysema, public health,	
smog, US cities, smog and public health 1961 Oct p 49-57 [612]	membrane, 'powerhouse of the cell' 1957 July p 131-140 [36]
cooperation of US and USSR 1972 Apr n 55	chlorophyll, tetrapyrrole ring, hemoglobin, cytochrome, respiration tetrapyrrole virtuosity 1958 Aug p 77-81
environmental legislation, DDT bans 1969 June p. 57	beer, yeast, brewing, fermentation, hops, chemistry and microbiology
environmental pollution, tonizing radiation, background radiation	of brewing 1959 June p 90-100
nuclear medicine, atomic bomb test, introduction to single-topic	enzyme-substrate complex, dialysis, catalysis 1959 Aug p 119-125
tissue on ionizing radiation 1959 Sept p 74-83	autolysis, lysosomes, phagocytosis, pinoeytosis, metamorphosis
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tonizing radiation, fallout, atomic bomb test, radiation damage,	grape fermentation, wine, yeast, viticulture, climate, chemical explanation of a good wine, role of climate
mutation, public health, hazards of radiation to society	1964 Aug p 46-56 [190]
1959 Sept p 219–232 [1214]	proteins, peptide bond, zymogen, trypsin, proteolytic enzymes
forest ecosystem, X-ray, gamma radiation, white oak, atomic bomb	hydrolysis structure and function of protein digesting enzymes
test, weeds, ecological effects of high-energy radiation	1964 Dec p 68-79
1963 June p 40-49 [159] fission reactor, nuclear power, public health, radioactive waste	protein synthesis, hemoglobin, myoglobin, control systems feedback cooperative enzymes, allostenc enzymes, control of biochemical
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recycling plant, garbage processing 1967 Jan p 58	1967 Nov p 62–72 [1085]
PCB's and bird eggs 1969 Feb p 44	ATP, mitochondrion, glycolysis, cell membrane, oxidative phosphorylation, cell metabolism, mitochondrial membrane
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U N conference in 1972 1969 Aug p 48	ceruloplasmin hemocyanin, oxygen transport, copper deficiency,
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nuclear-plant regulation 1971 Dec p 40	tyrosinase 1968 May p 102-11
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Environmental Protection Agency, proposed 1970 Sept p 79	chemistry 1969 May p 30-41
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disorder, lead poisoning nerve disorders 1971 Feb p 15-23 [1211]	extra-cellular enzyme production 1961 July p 60 57 specificity and universality of binding sites 1974 Mar p 45
enzyme, alcohol metabolism detoxification, drug inactivation, liver function, metabolism of drugs cirrhosis 1975 June p 22–31 [1322]	enzymology, extra cellular enzyme production 1961 July p 66 67
enzyme action, insulin, protein structure, ribonuclease, amino-acid	Fot as as perment, gravitational constant, science history general
sequence myoglobin resolution of atomic structure of three	relativity. Eotyos experiment confirmed 1961 Dec p 64-74
molecules 1961 Feb p 81-92 (80)	astrophysics red shift measurement, relativity theory gravitation theories assessed 1974 Nov. p. 24-33
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lock-and key theory, molecular structure protein shape-change,	volcanic sediments, petrified forests of Yellowstone
19/3 UCL D 32-04 [1200]	1964 Apr p 106-114 endemic lysteria, faintins 1967 Feb p 58
The service of the cutting entitles of the cutting services of the	epidemic hysteria, fainting 1967 f co p sepideminlogs, histoplasmosis fungal infection respiratory infection
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specificity to substrate	morbidity mortality rates economic development income stitus
	occupational health 'social medicine, environment material well
diagnosis leukemia, incurat diagnosis 1961 Aug p 99–107 abnormal enzymes	poliomielitis virus central nervous system infective specificty
and ma catalysis proteins, amino acids, peptide chain diplia items	infective specificity, nature of the disease and public health stitlus
and-key theory how is a protein made? 1953 Sept. p. 100–106	before production of the vaccines 1950 Aug. p. 22-26
and-key theory how is a protein made equence, alanine enzyme cleavage, RNA, nucleic acid nucleotide sequence tRNA, fragment assembly first nucleotide sequence 1966 Feb p 30-39 [1033]	stress anovia pregnancy Down's syndrome trisons 21 chology of Down's syndrome 1952 Leb p (4) 66
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		electromagnetic radiation, electron-hole liqui	d auantum mechanics
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1965 May p	110-118 [1012]		
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	102 111 [1125]	antiproton	1970 Nov p 45
	102–111 [1125]	exotic molecules, comet origins, cometary struc	
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	9 Feb p 15–21	primordial dust cloud, Comet Kohoutek	1974 Feb p 48–57
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acid substitution, phylogeny from amino-acid substit	ution	environment experience in normal develop	ment
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		expert witnesses, criminal law, insanity defense,	
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		exponential-time problems, algorithms, compute	er science, Koenigsberg
bacteria, blue-green algae, fossil cells, Gunflint cherts,			
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mechanism of hormone action 1965 June p. 36-45 Hula	
adrenal gland, pineal organ, biological clock progesterone melatonin	Taleontine settlements, stone tools
scrotomic pincal regulation of sex plands 1965 July 5 40 40 11016	1976 Feb p 88-99 European cattle, animal husbandry, cattle, dairying Zebu cattle, selective
estrus, fleas, parasitism, host-parasite relationship, hormone, rabbits, adaptation, the rabbit flea and rabbit hormones	Stock dieeding 1958 June n. 61-60
1965 Dec = 44-53 11007	European economy, economic development, trade deficit Economic
estuary, ecology, natural history, a teeming life province	10AC Tale to 0 15
1954 May p 64-68 Eta Carina, Clouds of Magellan, galactic center, nebulae, globular cluster	European Organization for Nuclear Research, see CERN
stars, Southern sky, astronomical riches of the southern sky	Luropean prehistory, archeological dating, carbon 14 dating
1952 July p 46–57	eufectics, alloys crystal structure, metallurgy, controlled eufectics.
nova de novo 1952 Aug p 34 etching, chemical milling, metal cutting, operation of chemical mill	whiskers, controlled-cooling magnets 1967 Feb p 86-92
1957 Jan p 104~112	composite materials, materials technology, whiskers, fiber glass two- phase materials, fiber-reinforced composites, matrix
cosmie radiation, nuclear tracks, fission-track dating, ionizing	1967 Sept p 160-176
radiation, applications of charged-particle tracks in solids 1969 June p 30-39	eutrophication, climate, marshland, swamp, ecology, wetlands, natural
ettler drift, Fitzgerald contraction, Maxwell's equations, relativity theory	history of marsh, effect on climate 1958 Oct p 114-122 [840] water pollution, fisheries, fish population, runoff, Great Lakes silv
Lorentz transormation, life and work of G F Fitzgerald	US Great Lakes' aging 1966 Nov p 94-104 [1056]
1953 Nov p 93-98 luminiferous ether, special relativity, speed of light, interferometry,	bacteria, nitrogen cycle, nitrogen fixation, blue-green algae, Haber process, biosphere, nitrate, legumes 1970 Sept p 136-146 [1194]
Michelson-Morley ether-drift experiment 1964 Nov p 107-114	ATP, mineral cycles, biosphere, phosphorus cycle, sulfur cycle, sulfur
'big bang' theory, cosmic background radiation, Hubble constant,	bacteria, carboxylation cycle, mineral cycles in the biosphere
anisotropy in 3-degree Kelvin radiation 1978 May p 64-74 [3008] at 9,000 megacycles 1954 July p 46	1970 Sept p 148-158 [195] nitrogen role 1971 May p 50
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Holon and Nablus communities 1977 Jan p 100-108 [690]	therapsids ichthyosaurs origin of mammals 1949 Mar p 40-43
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displacement activity 1954 Nov p 42-46 animal behavior, evolution, ritualized behavior, innate behavior.	recombination, speciation, natural selection, genetic basis of evolution 1950 Jan p 32-41 [6]
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1958 Dec p 67-78 [412] social behavior, gulls, comparative psychology, animal behavior,	1953 Apr p 66-72 [22] intelligent life, astronomical probabilities, The thesis man is alone in
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1960 Dec p 118~130 [456]	E coli penicilin resistance, mutation rate, evolution observed 1953 Oct p 78-83
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1963 Aug p 38-46 [1098]	mutation, ostrich calluses, speciation religion orthogoxy,
animal behavior, speciation, gulls, evolution sexual behavior, innate behavior, species discrimination, Larus, eye rings	Darwinism, experiments in acquired characteristics 1953 Dec p 92-99
1967 Oct p 94-102 [1084]	strangler trees, ecology, tropical rain forest 1954 Jan p 78-80
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1962 Feb p 82~94	science history, Darwin, Charles Darwin biography 1956 Feb p 62-72 [105]
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Galton, regression to mean	generics, muration, genetic variation, evolution observed
eukaryotic cells, cell evolution, ten organismos algae, ciha, flagella mitochondria, symbiosis, prokaryotic cells algae, ciha, flagella 1971 Aug p 48–57 [1230]	science history, geology. Lyell Charles Lyell biography
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nsect behavior, bee dances, social insect, evolutionary 'dialects' of	
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1967 Oct p 94–102	1084] atoms, particle accelerator, pions, quantum mechanics, high-energy
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Demander release Section Section of the control of	evotic molecules, comet origins, cometary structure, solar system,
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antievolution laws in U S 1969 Feb p	· · · · · · · · · · · · · · · · · · ·
horn, antler, osteogenesis, bone, keratin, ungulates, differences be	
horns and antlers 1969 Apr p 114-122	1139] of endotoxins 1964 Mar p 36-45
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1971 May p 30-4	[395] efficiency of algorithms 1978 Jan p 96–109 [395]
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control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera pattern recognition, scan-path recordings, senal-recognition hypothesis, visual perception hypothesis, visual perception hypothesis, visual perception longualism, dyslexia, grammatical relations, language, reading, perception of words lored visual perception, neurophysiology, pons, visual cortex, visual processing visual cells in pons lored Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial lored p 23-31 [562] facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication logic potential portion of the processing visual expression in communication logic potential portion in the processing visual cells in pons logic potential portion processing visual cells in pons lored Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial logic p 23-31 [562] factor analysis, anxiety, personality logic p 88-94 [627] factor analysis, anxiety, personality logic p 88-94 [627] factor analysis, anxiety, personality logic p 963 Mar p 96-104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossis of behavior logic p 790-84 [643] falence, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass logic p 70-84 [643] falling-body velocity, free fall, Galico Merton rule science history logic p 78-86 falling-stone problem, calculus, Euchdean geometry, infinitesimals mathematical logic, method of exhaustion, nonstandard analysis logic p 78-86	arms race, atomic test ban, national security, atomic be policy, military technology 1964 O 'false bottom', marine biology, plankton, sonar, shrimp, I sea scattering layer, deep sea 'layer of life' 19. sonar, echo sounding ocean floor, plankton, deep sea photic zone 1966 Mar false scorpion, Arachnida, natural history, animal behavior canroides 1966 Mar family, public opinion, voters' attitudes voting behavior, analysis, ethnic groups, income social status, 'votes i 1956 emotional illness, mental health schizophrenia, epidem psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, pmortality, crime, suicide drug addiction, changes in family structure 1974 Aug family planning, birth rate birth control, family size, contribution trends acceptance of contraception 1959 economic development demographic transition, industri urbanization, population control, economic development birth control, population growth economic development birth control in Taiwan 1964 May birth control, human population India, infani moriality, experience in an Indian village 1970 July p 1 aboriion, birth control, contraception population control policy in US 1973 family size, urbanization US census US population reap US census of 1950 birth rate, birth control family planning contraception, population trends acceptance of contraception, 1959 A US census, urhanization age sex distribution, baby boom	omb test, missile ct p 27–35 [319] heteropod deep 51 Aug p 24–28 scattering layer, 162 July p 44–50 or, Chelifer p 95–100 [1039] correlation in the making 0 Nov p 11–13 tology, r p 38–42 [441] soverty, infant American p 53–61 [561] acception U S 9 Apr p 50–55 talization cnt and the p 62–71 [645] promotion of p 29–37 [621] medical care 106–114 [1184] it, public July p 17–23 portionment Apr p 15–17 U S Apr p 50–55 in central
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception hypothesis, visual perception hypothesis, visual perception of words language, reading, perception, of words language, reading, perception, visual cortex, visual processing visual cells in pons lyf6 Nov p 90–98 eye-witness testimony, crime, perception, memory, jury trial l974 Dec p 23–31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication l965 Oct p 88–94 [627] factor analysis, anxiety, personality l963 Mar p 96–104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior l969 Apr p 70–84 [643] faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass l963 Nov p 120–130 falling-body velocity, free fall, Galilco Merton rule science history l973 May p 84–92 falling-stone problem, calculus, Euchdean geometry, infinitesimals mathematical logic, method of exhaustion, nonstandard analysis l972 June p 78–86 Fallot tetralogy, cardiology, ductus arteriosus cardiovascular surgery,	arms race, atomic test ban, national security, atomic be policy, military technology 1964 O 'false bottom', marine biology, plankton, sonar, shrimp, I sea scattering layer, deep sea 'layer of life' 19. sonar, echo sounding ocean floor, plankton, deep sea photic zone 19 false scorpion, Arachinda, natural history, animal behavior, analysis, ethnic groups, income social status, 'votes i analysis, ethnic groups, income social status, 'votes i emotional illness, mental health schizophrenia, epidem psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, pmortality, crime, suicide drug addiction, changes in A family structure 1974 Aug family planning, birth rate birth control, family size, contrapopulation trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population growth economic development birth control, population growth economic development birth control in Taiwan 1964 May birth control, human population India, infani moriality, experience in an Indian village 1970 July p 1 aborison, birth control, contraception population control policy in US 1973 family size, urbanization US census US population reap US census of 1950 1951 birth rate, birth control family planning contraception, L population trends acceptance of contraception, baby boom 1961 Suburbs US census at 1960 1961 1961 1961 1961 1961 1961 1961	omb test, missile ct p 27–35 [319] heteropod deep 51 Aug p 24–28 scattering layer, 62 July p 44–50 or, Chelifer p 95–100 [1039] correlation in the making 0 Nov p 11–13 tology, r p 38–42 [441] overty, infant American characteristic p 53–61 [561] acception U S 9 Apr p 50–55 talization cnt and the p 62–71 [645] promotion of p 29–37 [621] medical care 106–114 [1184] i, public July p 17–23 portionment Apr p 15–17 U S Apr p 50 55 in central fully p 39–45
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control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera pattern recognition, scan-path recordings, senial-recognition hypothesis, visual perception hypothesis, visual perception of words language, reading, perception, of words language, reading, perception, visual cortex, visual processing visual cells in pons lyf6 Nov p 90–98 eye-witness testimony, crime, perception, memory, jury trial l974 Dec p 23–31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication l965 Oct p 88–94 [627] factor analysis, anxiety, personality l963 Mar p 96–104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior l969 Apr p 70–84 [643] falence, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass l963 Nov p 120–130 falling-body velocity, free fall, Galilco Merton rule science history l973 May p 84–92 falling-stone problem, calculus, Euchdean geometry, infinitesimals mathematical logic, method of exhaustion, nonstandard analysis mathematical logic, method of exhaustion, nonstandard analysis l972 June p 78–86 Fallot tetralogy, cardiology, ductus arteriosus cardiovascular surgery lechnology and technique of open-heart surgery lechnology and technique of open-heart surgery	arms race, atomic test ban, national security, atomic be policy, military technology 1964 O 'false bottom', marine biology, plankton, sonar, shrimp, I sea scattering layer, deep sea 'layer of life' 19. sonar, echo sounding ocean floor, plankton, deep sea photic zone 19. false scorpion, Arachnida, natural history, animal behavior, analysis, ethnic groups, income social status, 'votes i analysis, ethnic groups, income social status, 'votes i emotional illness, mental health schizophrenia, epidem psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, pmortality, crime, suicide drug addiction, changes in A family structure 1974 Aug family planning, birth rate birth control, family size, contrapopulation trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population control, economic development birth control, population growth economic development birth control in Taiwan 1964 May birth control, human population India, infani moriality, experience in an Indian village 1970 July p 1 aborison, birth control, contraception population control policy in US 1973 (amily size, urbanization US census US population reap US census of 1950 1951 birth rate, birth control family planning contraception, Upopulation trends acceptance of contraception, baby boom city, suburbs US census at 1960 1961 1961 1961 1961 1961 1961 1961	omb test, missile ct p 27–35 [319] heteropod deep 51 Aug p 24–28 scattering layer, 62 July p 44–50 or, Chelifer p 95–100 [1039] correlation in the making 0 Nov p 11–13 tology, r p 38–42 [441] overty, infant American characteristic p 53–61 [561] acception U S 9 Apr p 50–55 talization cnt and the p 62–71 [645] promotion of p 29–37 [621] medical care 106–114 [1184] i, public July p 17–23 portionment Apr p 15–17 U S Apr p 50 55 in central fully p 39–45

F.A.O., human nutrition, population, food production, U N technical agencies, 'the food problem' 1950 Aug p 11-15	cybernetics, automatic control, self-regulation, computer science, automata theory, mechanical, biological, social self-regulation
land reform, agricultural technology, food supply, population growth, human nutrition, FAO Indicative World Plan	1948 Nov p 14-19 automata theory, artificial sensory organs, mechanical behavior, an
1970 Aug p 54-69 [1186]	imitation of life 1950 May p 42-45
Faraday, electrical induction, science history, life and work of Michael	automata theory, learning, conditioned reflex 1951 Aug p 60-63
Faraday 1953 Oct p 90–98	automatic control, self-regulation, automata theory, information theory, introduction to single-topic issue on automatic control
Faraday rotation, galactic magnetism, starlight polarization, spiral galaxies, spiral arms, stiffening of spiral arms by Milky Way	1952 Sept p 44-47
magnetic field 1965 June p 46-54	control loop, servomechanisms, flyball governor, positive feedback,
fast neutron reactor, fission reactor, nuclear power, breeder reactor,	negative feedback, ecological system, nervous system, economic system, automatic control, feedback concept 1952 Sept p 48-55
boiling-water reactor, homogeneous reactor, sodium-cooled reactor 1954 Dec p 33–39	bone, calcium, cartilage, hydroxyapatite crystal, osteoclasts
breeder reactor, nuclear power, uranium cycle, thorium cycle, liquid-	1955 Feb p 84-91
metal reactor, fission reactor, energy demand	computer science, von Neumann machine, automata theory, Turing
breeder reactor, nuclear power, fission reactor, Superphenix in France	machine, self-reproducing machine, 'artificial living plants' 1956 Oct p 118–126
1977 Mar p 26-35	embryonic development, cell differentiation, tissue specialization
fast neutrons, atomic nucleus, spectroscopy, nuclear probe, neutron	1958 Dec p 36-41 eye movement, visual tracking visual scanning, human eye, control
spectroscopy, structure of atomic nucleus 1964 Mar p 79-88 fasting, diet, human nutrition, metabolism starvation, kwashiorkor,	mechanisms of the eye 1964 July p 24–33
marasmus, physiology of starvation 1971 Oct p 14–21 [1232]	control theory, mathematics, cybernetics, computer programming,
fat metabolism, fatty acids, coenzyme A, ATP, enzymes	frequency response, stability, dynamic programming, 'policy'
1954 Jan p 32–36 [16]	concept 1964 Sept p 186-200 manipulators, remote control, robot, automatic control, industrial
tissue, hormone, obesity, fat tissue, diet, role of fat metabolism in human physiology 1959 Dec p 70-76	manipulators 1964 Oct p 88–96
enzyme deficiency, genetic disease, amniocentesis, Tay-Sachs disease,	enzymes, protein synthesis, hemoglobin, myoglobin, control systems,
lipids, lipid-storage diseases, 10 lipid-storage diseases 1973 Aug p 88-97	cooperative enzymes, allosteric enzymes control of biochemical reactions 1965 Apr p 36-45 [1008]
obese mice 1952 Sept p 74	vortex, edge tone, aerodynamic whistles, hole tone, sound waves,
fat tissue, fat metabolism, tissue, hormone, obesity, diet, role of fat	whistles, flutes, organs and rocket engines 1970 Jan p 40-46
metabolism in human physiology 1959 Dec p 70-76 Fata Morgana, atmospheric optics, mirages, optical illusion, refraction,	control systems, water clock, thermostat, windmills, automatic control, flyball governor, origins of feedback control 1970 Oct p 110-118
walking on water 1976 Jan p 102–111	fatty acids, hormone-like substances, drug therapy, nervous system,
fathogram, ocean floor, topography, Aleutian Trench, seamounts, sonar,	prostaglandin 1971 Nov p 84-92 [1235]
echo-sounding, the Pacific floor 1952 Apr p 19–33 fatigue, motivation, 'reactive inhibition', schizophrenia, experiment in	brain function, carbohydrate, neurotransmitters, serotonin, human nutrition, tryptophan 1974 Feb p 84-91 [1291]
objective measurement of motivation 1963 May p 130–140	feedback in biology, 'turbidostatic selector' 1952 Sept p 68
fatigue wear, materials technology, wear, adhesive wear, abrasive wear,	feeding behavior, animal behavior, sharks, attack prevention, sensory
corrosion, surfaces in sliding contact 1962 Feb p 127–136 fatt, acid synthesis, microsome, acetic acid, coenzyme A, lecithin, lipids,	systems 1962 July p 60-68 [127] basal metabolism, hibernation homeothermy, circadian rhythm,
synthesis not breakdown in reverse 1960 Feb p 46-51	circannual rhythm, hypothalamus, squirrels, dormice in hibernation
fatty acids, fat metabolism, coenzyme A, ATP, enzymes	1968 Mar p 110–118 [513]
1954 Jan p 32–36 [16] thin-film optical devices, interferometry, fluorescence, wave motion,	animal behavior, innate behavior, learning, parental care, sea gull chicks 1969 Dec p 98-106 [1165]
light waves, monomolecular films 1970 Mar p 108-119	chimpanzee, food sharing hunting, carnivorous chimpanzees
feedback, hormone-like substances, drug therapy, nervous system, prostaglandin 1971 Nov p 84–92 [1235]	omnivorous chimpanzees, Gombe National Park, Tanzania 1973 Jan p 32-42 [382]
prostaglandin 1971 Nov p 84–92 [1235] fatty liver, alcoholism, alcohol metabolism, liver function, malnutrition,	mosquito bite, yellow fever, insect behavior, malaria, feeding behavior
'empty calones', acetaldehyde, cirrhosis 1976 Mar p 25-33 [1336]	of mosquitoes 1978 June p 138–148 [1392]
fault, see plate tectonics, block fault fauna, Antarctica, flora, lichens, blue-green algae, ecology, Antarctica	feelies', tacule simulation 1974 May p 61 female-role ideology, sex roles women's aspirations, attitude survey
terrestrial life 1962 Sept p 212-230 [865]	1972 Jan p 34-42
Fayum, primate evolution, hominoid, fossil primates, apes, man-apes,	fences, hickory, axe-handles, smoked ham, hickory nuts economic
Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28–35 [636]	botany, forest, natural history, shagbark hickory 1948 Sept p 40-43 Fermat, Descartes, mathematics history, analytic geometry, conic
F.D.A: Food and Drug Administration	sections, Euler, mathematics 1949 Jan p. 40-45
F.D A., pharmaceutical industry, prostheses, medical care, medical economics, drug prescription, drug research, medical laboratory	fermentation, enzymes catalysis digestion, respiration, lock-and-key theory, science history 1948 Dec. p. 28-39
services 1973 Sept p 161–166	theory, science history 1948 Dec p 28–39 ATP, muscle contraction, citric-acid cycle, energy transformation
fcar, anger, adrenalin, noradrenalin 1955 May p 74-81 [428] emotional development comparative psychology, learning influence of	1953 Apr. n. 8592
early environment, experiments with dogs 1956 Jan p 38-42 [469]	origins of life Miller-Urey experiment, high-energy radiation, heterotrophs, photosynthesis, autotrophs 1954 Aug p 44-53 [47]
anger, different adrenalins 1951 Nov p 40	ruminants metabolism, symbiosis, cellulose digestion, anaerobic
feather duster worm, Annelida, lugworm, biological clock, circadian rhythm, marine worm 1959 June p 132–142	metabolism, how cows digest grass 1958 Feb p 34-38 beer, enzymes, yeast, brewing, hops, chemistry and microbiology of
feather keratin, keratin, X-ray diffraction, protein structure alpha keratin	Drewing 1959 June p. 00, 100
1969 Aug p 86-96 [1155] feathers, as food additive 1975 May p 45	baking yeast brewing, fiboliavin synthesis cryptococcal meningitis
Fechner's law, learning visual perception, asychophysics. Stanner hox	Fermi average as F. O. yeasts, useful and noxious 1960 Feb p 136–144
behavioral psychology, conditioned behavior, pigeon perception	to Bethe
1961 July p 113-122 [458] Federation of American Societies for Experimental Biology, annual	a countries, included work
meeting 1056 June n 54	quantum effects gross properties explained as
feedback, insect behavior, social insect, army ant, ants, comparative psychology, reproduction pheromones trophallaxis natural history,	electrical conductivity, semiconductor, materials technology, quantum
philosophy of science, anthropomorphism 1948 June p 16–23	properties, charge earliers electron mean free path, electrical
	properties of materials 1967 Sept. p. 194–204

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crystal energetics, crystal structure, metallurgy, conduction electrons,	
quantum mechanics, quasi-particle concept, metal properties	10,011-1 4 6:
1973 Inn - 00	refus as transplant, histocompatability, immune response, immuno ocacil
refinition, fight-energy physics, mesons, V-particles, boson, the multiplicate	privilege, reproduction, trophoblast, nidation, placenta
01 particles 1952 for = 33	
inglificity physics, poson, guage theory 1077 X ==	galation, noncostasis, nypoinalainas, emily
fermium, californium, table of elements, einsteinium 'synthetic' elements	01 lever 1957 June n 62-68
transuranium elements, mendelevium, radioactive decay, periodic	i de la
table at 101 1956 Dec p 66-80 [24	anaphylactic shock, mode of action and hazards of most widely used
ferredo vin, energy-carrying chain in photosynthesis 1962 Oct p	
ferrite cores, computer memory, ferroelectric cry stal memory, mercury	
delay line, magnetic tape, magnetic drum 1955 June p 92-10	phase materials, fiber-reinforced composites mainx, eutecucs
ferrites, magnetism, magnetic domains, iron, cobalt 1955 Jan p 68-7	
crystal structure, magnetism, materials technology, microwave	The state of the s
radiation, computer memory, industrial applications of iron oxides	light conduction 1960 Nov p 72-81
1060 Turn 100 Annual applications of fron Oxides	carrier-wave modulation, coaxial cable, communication technology
1960 June p 92-10 ferroelectric crystal memory, computer memory, ferrite cores, mercury	
delay line, magnetic tape, magnetic drum 1955 June p 92-10	bandwidth, noise 1972 Sept p 98-113
delay line, magnetic tape, magnetic drum 1955 June p 92-10 ferrograph analysis, Beilby layer, friction, lubrication, machine wear,	
metal faugue, particles of wear, wear 1974 May n 88-9	1973 Nov p 28-35
metal faugue, particles of wear, wear 1974 May p 88-9 ferromagnetism, electron spin, materials technology, magnetic domains	
hysterests, magnetic properties of materials 1967 Sept. p. 222–23	hght-wave communication, pulse-code modulation, hghtwave
Fertile Crescent, agricultural revolution, human evolution, cultural	composite materials, two-phase materials 1965 Feb p 28-37
anthropology, Neolithic archeology, 8000 B C domestication of	fiber-reinforced composites, composite materials, materials technology
plants and animals 1960 Sept. p 130–148 [605]	whiskers, fiber glass, two-phase materials, matrix, eutectics
fertility, age-sex distribution, US census, human resources, mortality	1967 Sept p 160-176
rates, population of US 1951 Sept p 28-35	cermets, composite materials, dispersion-strengthened composite.
fertility control, see birth control, contraception	particulates 1973 July p 36-44
fertilization, sea urchin egg. parthenogenesis 1950 Dec p 46-49	
parthenogenesis, progesterone, hyaluronidase, zona pellucida	coronary occlusion, electrocardiography, nerve conduction heart
1951 Mar p 44-47	infarct 1968 July p 19-27
contraception, birth control, reproduction, ovulation, audation	fibrin, collagen, elastin, keratin, myosin, cell, polymers polymers in hving
1954 Apr p 31–34	cells 1957 Sept. p 204–216 [35]
antibodies, antigen-antibody reaction, fertilizin	blood clotting, hemagglutination, fibringen, molecular biology,
1954 June p 70-75 [43]	thrombin, role of thrombin in converting fibringen into fibrin 1962 Mar p 60-66
cell differentiation, embryonic development, blastula, gastrula,	
ectoderm, mesoderm, endoderm, embry ological 'organizer', science	fibringen, blood clotting, hemagglutination, molecular biology,
history, review of classical embryology 1957 Nov p 79–88 [103]	thrombin, fibrin, role of thrombin in converting fibringen into fibrin 1962 Mar p 60-66
sea urchin, spermatozoon, acrosome reaction, sexual reproduction, moment of fertilization 1959 July p 124-134	fibroblasts, aging, mitosis, cell culture, somatic cells, cell, DNA
cell differentiation. tissue specialization, 'lampbrush' chromosome,	replication, experiments in aging 1968 Mar p 32-37 [1103]
embry onic development, zygote, ovum, clone, cytology, how cells	u aund healing regeneration levil orate collaven enidermal cells
specialize 1961 Sept p 124–140	1969 June p 40-30 [1147]
active transport, passive transport, pinocytosis, phagocytosis, cytology,	collagen elasur microfibris 1971 June v 44-52 [1/23]
osmosis, cell membrane, functions of cell membranes	fiddler crab, biological clock, circadian rhythm 1954 Apr. p. 34-37
1961 Sept p 167–180 [96]	field emission, electron beam cold cathode current density, X-13)
avian reproduction, ring dove, breeding cycle, sexual behavior,	photography 1964 Jan p 108-118
hormone 1964 Nov p 48-54 [488]	field-emission microscope, microscopy, pictures of atoms
mitosis, ovum, embryonic development, meiosis, blastocyst, human	1952 May p 38-02
embryos in the laboratory 1970 Dec p 44-54 [1206]	crystal structure, metals pictures of atoms 1957 June p 113-122
sexual reproduction ionic regulatory mechanisms	field-scanning rate, color television, picture elements, line structure.
1977 Nov p 128–138 [1372]	technology assessment, competing color television systems weighed
human physiology, 60-hour-old embryo 1950 July p 28	1950 Dec p 15 1
fertilization of flowers, flower, pollinators, species specificity	field theory, high-energy physics, Classical physics quantum fields
1951 June p 32–56	elementary particles, with 20 particles known, a review of the theoretical foundations of physics 1953 Apr p 57-64 [208]
fertilizers, insecticide, herbicide, agricultural technology, chemical	theoretical foundations of physics 1953 Apr p 37-04 [207]
agriculture 1952 Aug. p 15–19	matter, wave-particle duality, energy levels, electromagnetic force, nuclear forces gravitation, fundamental research quantum jumps
plant growth, food production chemical industry, agricultural	corpuscular streams what is matter? 1953 Sept p 52-57 [241]
technology, increasing world food supply 1965 June p 62–72	Maxwell's equations electromagnetism, life and work of James Clerk
human population, food production, pollution, irrigation biosphere, agricultural revolution, soil erosion, biosphere capacity to produce	Maxwell 1955 June p 5~71
1970 Sept D 100-170 (1130)	mathematics, physical sciences, group theory, 'eightfold way'. S-matrix
food 'green revolution'. India, food and agriculture, technology transfer,	theory, mathematics in physics 1964 Sept p 128-149
monsoons, irrigation, rice, agronomy, wheat, hybrid crop plants	partiele interaction, high-energy physics, gauge theory 'weak' force
1576 Bept P 40	electromagnetic force, 'strong' force 1974 July p 50-59
corn-fertilizer energy profit is 5 95 to 1 0 1976 Jan p 62	fighting behavior, ciehlid fish, marine iguana, rattlesnake, animal
	behavior, comparative psychology, oryx 1961 Dec p 112-122 [470]
fertilizin, fertilization antibodies, anager 1954 June p 70–75 [43]	figure-ground perception, pattern recognition, texture discrimination visual perception perceptual limitations 1975 Apr. p. 34-43 [563]
fetal conditioning, heartbeat, maternal behavior, mother-child interaction,	filanasis, circadian rhythm parasiusm, elephantiasis tropical d sease
left-side preference in babyholding 1973 Viay p 24-29	1958 July p 94 101
fetal injury, eleft palate, congenital anomalies chief to a 100-116	Chang's disease, public health 'zoonoses', paracuism trypanosomiaus
teratogenesis rubella, teratology	malaria leishmaniasis plague, vellow lever, typl us ep demiolom
fetal lungs, infant, hyaline membrane disease, lung, 3010173 Apr. p. 72-85	animal infection and human disease 1969. May p. 161-170
and physiology of the urit lical	chemotherapy found 1949 May p. 27
fetus, umbilical cord, placenta, anatoms and provided 1952 July p 70-74	
cord	

ilm boiling, boiling, liquids, heat transfer, nuclear boiling, transition	fission fragments, nuclear fission, heavy nuclei, liquid	
boiling 1954 June p. 64–68 Filter board, for radioactive dust 1955 Oct. p. 50	neutron, uranium 235, shell model fission fuels, energy consumption, energy resources,	1965 Aug. p. 49–59 nower fossil fuel.
filter board, for radioactive dust 1955 Oct. p. 50 inches, birds, mimicry, parasitism, sexual behavior, widow birds, animal	fusion fuels, geothermal energy, solar energy, tio	
behavior 1974 Oct. p. 92–98	1971	Sept. p. 60-70 [663]
fingeforint, see: dermatoglyphics	fission products, rare earths, table of elements, abund	
fire, ecology, forestry, grassland, forest fire, role of fire in climax ecology	products draws attention to rare earths	1951 Nov. p. 26–30
1961 Apr. p. 150–160 [1099]	isotopes, uses in science and technology nuclear fuel cycle, plutonium separation, fission re	1952 June p. 19–21
fire protection, 'flashover', pyrolysis, flammability standards 1974 July p. 21–27	nuclear ruer cycle, plutomam separation, rission re	1952 July p. 62–67
fire ants, agricultural pest, dieldrin, pest control, insecticide	uranium fission, nuclear fission, 'synthetic' elemen	
1958 Mar. p. 36-41	transuranium elements, science history, discover	ry of fission
fire-making, human evolution, fire vegetation, cooking, Neolithic	1 6 011	1958 Feb. p. 76-84
revolution, kiln, furnace, heat, introduction to single-topic issue on	natural reactor, nuclear fission, Oklo phenomenon reactor, uranium deposits	, Precambrian 1976 July p. 36-47
heat 1954 Sept. p. 52-57 fire protection, fire, 'flashover', pyrolysis, flammability standards	food preservation?	1954 Nov. p. 50
1974 July p. 21–27	fission reactor, nuclear power, heavy-water reactor, h	
fire vegetation, fire-making, human evolution, cooking, Neolithic	enriched uranium, A.E.C. program	1951 Apr. p. 43-50
revolution, kiln, furnace, heat, introduction to single-topic issue on	zirconium, jet engines, ilmenite	1951 June p. 18-21
heat 1954 Sept. p. 52–57	nuclear fuel cycle, plutonium separation, fission pr	1952 July p. 62–67
'fireball blackout', arms control, atomic test ban, EMP effect, underground nuclear explosions, strategic weapons	neutron beam, monochromator, neutron diffractio	
1972 Nov. p. 15–23 [342]		3 Aug. p. 23-29 [219]
firefly, bioluminescence, glow worm, abyssal fish, luciferase, 'cold light'	nuclear power, breeder reactor, boiling-water react	
1948 May p. 46–49	reactor, sodium-cooled reactor, fast neutron rea	
bioluminescence, insect behavior, insect physiology, luciferin, luciferase, chemotaxis, biochemistry of bioluminescence	nuclear power, 'atoms for peace', thermonuclear re	1954 Dec. p. 33–39
1962 Dec. p. 76–89 [141]	reactor, C.E.R.N., first of a four-part report on t	
animal communication, behavioral adaptation, bioluminescence, insect	Conference on the Peaceful Uses of Atomic Ene	rgy, Geneva, August
behavior, synchronous flashing of fireflies 1976 May p. 74-85	1945	1955 Oct. p. 27–33
first aid, artificial respiration 1952 Jan. p. 35 chest-thump beart remedy 1971 Feb. p. 47	'atoms for peace', nuclear power, breeder reactor,	1955 Oct. p. 56–68
Heimlich maneuver 1975 Dec. p. 50	breeder reactor, nuclear power, energy economics,	
fish, swimming, laminar flow, turbulence, purpoises, bow fishes and sea-	U.K.	1958 Mar. p. 29-35
going mammals swim 1957 Aug. p. 48–54 [1113]	energy economics, nuclear power, fuel rods, design	
animal behavior, marine biology, schooling behavior, sensory, systems for parallel orientation 1962 June p. 128-138 [124]	elements breeder reactor, nuclear power, energy economics,	1959 Feb. p. 37–43
sea, food chain, plankton, marine ecology, ocean, marine life, life in the	uranium cycle, breeder reactor development	1960 Jan. p. 82–94
ocean 1969 Sept. p. [46–162 [884]	neutron radiography, thermal neutrons, nondestru	ctive testing,
bioluminescence, fish-scale crystals, tapetum lucidum, opiics under		lov. p. 107–119 [287]
water, camouflage 1971 Jan⊊p. 64-72 [1209] Death Valley, desert pupfish, species isolation, endangered species	breeder reactor, energy demand, uranium fission, p generation' breeder reactors	1967 May p. 25–33
1971 Nov. p. 104–110 [1236]	energy demand, electric power, nuclear power, fost	
bacteria, bioluminescence, flashlight fisbes, symbiosis	economics, history and prospects of nuclear pow	
l977 Mar. p. 106–114 fish communication, animal communication, crustacea, whale, porpoises,	calefaction, Connecticut River, thermal pollution,	1968 Feb. p. 21–31
marine biology, animal sounds in the sea 1956 Apr. p. 93-102	nuclear power, fisheries, ecology, fish crisis	industriai coomig,
fish migration, salmon, homing behavior, animal navigation, chemotaxis	1970	May p. 42-52 [1177]
1955 Aug. p. 72–75	breeder reactor, nuclear power, fast neutron reactor thorium cycle, liquid-metal reactor, energy dema	r, uranium cycle,
metabolism, salmon, swimming, laboratory observation of energy production by salmon 1965 Aug. p. 80-85 [1019]		Nov. p. 13-21 [339]
fish physiology, evolution, lungfish, air-breathing fishes, Devonian period,	CANDU reactor, nuclear power, natural reactor, h	eavy-water reactor,
conquest of land-breathing organs 1968 Oct. p. 102–111 [1125]	CANDU system	1975 Oct. p. 17-27
fish population, eutrophication, water pollution, fisheries, runoff, Great Lakes, silt, U.S. Great Lakes' aging 1966 Nov. p. 94–104 [1056]	energy conservation, energy resources, nuclear read disposal, atomic-weapon proliferation, Rasmuss	tor, nuclear-waste
fish-scale crystals, bioluminescence, fish, tapetum lucidum, optics under	197	6 Jan. p. 21–31 [348]
water, camouflage 1971 Jan. p. 64–72 [1209]	nuclear fuel, nuclear power, Purex process, reproce	essing
fisheries, aquaculture, proteins, food, tilapia, pond culture 1963 May p. 143–152	breeder reactor, fast neutron reactor, nuclear power	1976 Dec. p. 30-41
eutrophication, water pollution, fish population, runoff, Great Lakes,	France	1977 Mar. p. 26–35
silt, U.S. Great Lakes' aging 1966 Nov. p. 94–104 [1056]	environmental pollution, nuclear power, public hea	alth, radioactive
ocean, food chain, food supply, food resources of the ocean 1969 Sept. p. 178-194 [886]	waste disposal, underground storage 1977 in Scandinavia	June p. 21-31 [364]
calefaction, Connecticut River, fission reactor, thermal pollution,	low-cost 'swimming pool'	1951 Nov. p. 32 1952 July p. 35
industrial cooling, nuclear power, ecology, fish crisis	Fermi et al. patent	1953 Oct. p. 51
1970 May p. 42–52 [1177] food supply, marine farming, sea-water nutrients, upwelling, fishponds	molten U233 cycle	1954 Sept. p. 74
1970 Dec. p. 14–21 [1205]	Germany at work Calder Hall	1955 Oct. p. 44
protein for Haitians 1951 July p. 30	heavy water-liquid sodium reactor	1956 Dec. p. 52 1956 Dec. p. 53
fishing, anchovy crisis, El Niño, upwelling, Peru Current, Peruvian anchovy 1973 June p. 22-29 [1273]	Zero Power Reactor No. V	1956 Dec. p. 53 1957 Jan. p. 64
anchovy 1973 June p. 22-29 [1273] fishponds, food supply, fisheries, marine farming, sea-water nutrients,	uranium reactor technology	1957 Oct. p. 57
upwelling 1970 Dec. p. 14–21 112051	pressurized-water reactor fire safety	1957 Dec. p. 68
live-fold fertilizer yield 1948 Dec. p. 27	experimental boiling water reactor	1958 Feb. p. 46 1958 Mar. p. 51
fission, see: nuclear fission, meiosis, mitosis, fission reactor fission bomb, see: atomic bomb	boiling-water reactor technology	1958 Mar. p. 51 1958 May p. 58
	plutonium fission reactor gold-plated reactor vessel withstands corrosion	1958 Oct. p. 54
	garage reactor vesser withstands corrosion	1959 May p. 80

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gas-cooled design for UK	1965 July p	db filely control system for my because
USSR developments	1968 July p.	50 petrocal inhibitation and the contraction, insect ingit, here
42 operable in U.S.	1974 Mar. p.	flight safety, acrodynamics, aircraft-wake vortexes, contrails, jet flight,
seculso breeder reactor		
fission-track dating, cosmic radiation, nuclear to	tacks, etcling ionizing	flint tools, microwear aurilysts, Palcolithic archeology
radiation, applications of charged-particle	tracks in solids	1077 Nov 109 126 (200)
googlymalan of a ma	1969 June p. 30 ;	nintknapping, technique in Turkey today 1969 Apr p 51
geochronology, plass age, meteorite age, mine radioactive decay, uranium fission	eral age, pottery age.	the mechanism, acrodynamics, animal behavior, bird flight, insect flight.
Litzperald contraction other date Manager	1976 Dec p 114-1;	
Litzgerald contraction, other drift, Maxwell's eq Lorentz tranformation, life and work of G	nations relativity theory,	1975 Nov. p. 80-87 [1331]
total and the mount of the and work of C	1. fat/gerald	"final(15", CAC, Alathin, return, nature and onem of 'floatere'
five-fold symmetry, liquid structure, polyliedral-	1953 Nov p 93 9	1962 June p 119–127
arrangement of molecules in a liquid 19	noie model, peometrical	flowi plain, Arawak Indians, carthworks, agricultural system, ndged
fixation, problem solving, Gestalt psychology, in	960 Aug p 124 134 [26]	I fields. New World archeology 1967 July p 92-100
10 South Comment of the comment of t	nyigin, inc anti-reaction 061 April - 119 126 (124	floods, Mississippi river, meanders, alluvial valley, deltas
fixed point theorems, mathematics, topology, su	963 Apr. p. 118-125 (47) rf.v.e.deformation	
contraction	1966 Jan p 105~11	economic development, irrigation, Mckong river, monsoons hydro-
flagella, contractile proteins, keratin, myosin, ep	odenna 4 met neme	
motility in bacteria	1951 Jan p 20-2-	1963 Apr p 49-59
b reternal-cell wall, lysosyme, homeostasis, bac	tenal extoolasm	flora, coal, fossil, Mississippian period, Pennsylvanian period, Carboniferous period, tropical flora, deposition of coal
protoplasts, bacteriopliage, dissection of ba	cterra by lysozyme	1948 July p. 46-51
	1960 June p 132-142	
ciha, cytology, structure and function	1961 Feb p 108-116479	
actinomy osm, cyclosis, cilia, muscle contractic	on, extology, extoplasme	flotation, mineral separation, surfactant, bubbles, collector ions, ore
streaming, actin, myosin, underlying unity c	of cellular motion	beneficiation 1956 Dec p 99-110
14	961 Sept. p. 184-204 [97]	flow of matter, rheology, Hooke body, Newton body, St. Venant body,
ATP, axoneme, cell motility, cilia, microtubule	s, how cilia move,	how solids flow 1959 Dec p 122-138 [268]
parameeium, sperm 1	1974 Oct p 44-52 [1304]	flower, fertilization of flowers, pollinators, species specificity
baeteria, b icterial motility, 'twilldling', rotatio		1951 June p 52-56
27 - 12 - A - A - A - A - A - A - A - A - A -	1975 Aug p 36-44	pollen, scanning electron microscope, plant cell, morphology
flagellar action, bacterial motility, cell motility, el		1968 Apr p 80-90 [1105]
	976 Apr. p 40-47 [1337]	bee, bumblebee energetics, symbiosis 1973 Apr p. 96–102 [1270]
flame chemistry, chemical kinetics, flash tube, rar Iuminosity, spectroscopy		flower pigments, earotenoids, pigment synthesis, flavonoids,
heat, oxy-aluminum toreh, reaction kineties, hi	1953 May p 29-35	anthocyanins, biochemistry and genetics of flower pigments 1964 June p 84-92 [186]
meat, oxy-manatant totell, teaction kinetics, in	1954 Sept. p 84-95	flowering, plant hormones, germination, photoperiodicity, phototropism
flare stars, radio astronomy, radio star, Jodrell Ba		1949 May p 40-43
solar flares, definitive evidence of radiowave		plant hormones, photoperodicity, horticulture, control of flowering
,	1964 Aug p 13-19	1952 May p 49-50 (11-5)
flash floods, arroyo, climatic change	1952 Dec p 70-76	photoperiodicity, plant circulation, pigment, hormone,
flash photolysis, light-matter interaction, photoche		photoperiodicity in regulation of plant physiology
light, photolysis, triplet state, photoreduction		1958 Apr p 108–117 [112]
6 1 1 1 6 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1968 Sept p 158-170	plant growth, phytochrome, photoperiodicity, germination pigments,
flash tube, flame chemistry, chemical kinetics, ran		pigment, photoreceptive enzyme in plants flowmeter, Doppler effect 1960 Dec p 30-05 1953 June p 54
luminosity, spectroscopy flashlight fishes, bacteria, bioluminescence, fish, sy	1953 May p 29-35	flu, see influenza
hasningm usites, bacteria, piotaminescence, rish, sy	1977 Mar p 106-114	fluid dynamics, automatic control, continuous processing, petroleum
'flashover', fire, fire protection, pyrolysis, flammab		C
mastorer, met me protection, pyrosysto, minutes	1974 July p 21-27	1952 Sept p 82-90
flavonoids, carotenoids, flower pigments, pigment :	syntlicsis,	aerodynamics, air pollution, microclimate, micrometeorology,
anthocyanins, biochemistry and genetics of flo	ower pigments	troposphere, meteorology, turbulcnce, atmospheric phenomena near the ground 1964 Oct p 62-76
19	964 June p 84-92 [186]	
flavoring, food additives, food coloring, food presci	rvatives, texture	amplifiers, switching, Coanda effect, logic gates 1964 Dec p and liquid, supercooling, nucleation, cryogenics, crystal growth, behavior of
agents, safety of additives	1972 Mar p 15-21	supercooled fluids 1965 Jan p 38-46
flavors, essential oils, oleoresins, steam distillation,	1953 Aug p 70–74	computer applications, computer modeling, scaling, wind funnel.
perfumes flea jump, ectoparasites, insect cuticle, insect flight.	flea resilin as	vortex, computer graphics 1965 Mar p 104-110
alastomer 1973	Nov p 92-100 [1284]	aerospace technology, Coanda effect, aerodynamics, propulsion,
fless parasitism, host-parasite relationship, hormor	ne, rabbits, estrus,	nozzles, burners, nature and applications of Coanda effect 1966 June p 84-92
adoptotion, the tabbit flea and tabbit hormone	es	pipelines, oil, gas, slurries, history and technology of pipelines
196	5 Dec p 44–53 [1027]	pipennes, on, gas, siuries, instoly and technology of pipennes 1967 Jan p 62-72
Fleming, rectification, radio, thermionic tube, diode	forest	fluid impact, meteorites, cratering, projectile, impact crater, effect of high-
history of science, England, Edison, lamps, Del	1969 Mar p 104-112	speed impact 1960 Oct p 125-140
Fleming valve, radio, triode, De Forest, vacuum tub	e, Marconi, diode,	fluid inclusions, minerals, geology, Earth history, ancient fluids in crystals
		1962 Oct p 38–47 [854]
	opology, delight and	fluidization, petroleum cracking, particle bed, turbulence, gas stream, food processing 1968 July p 94-104
depth of mathematics	1956 Dec p 162–166	food processing 1968 July p 94-104 fluidized sand, quicksand, alkali bog 1953 June p 97-102
flexigation, mathematics, hexaflexagons, nexagon, to	opology, delight and 1956 Dec p 162–166	fluorescence, thin-film optical devices, interferometry, wave motion, light
depth of mathematics	es nrimary	' - ' films, fatty acids 1970 Mar p 108-119
Flexner report, medical education, medical specialist	research, medical care	occupational health, phosphorus, chelation,
physicians, foreign medical graduates, most	1973 Sept p 138–148	high technology disease 1958 Aug p 27-33 fluoridation, caries, dentistry, bacteriology, new theory of tooth decay
flies, bacteria, epidemiology, maggot, dysentery, viro	logy, disease vector	fluoridation, caries, definishly, bacteriology, new theory of rooth decay
mes, pacteria, chidennology, meggot, al	1965 July p 92–99	1953 June n 38-42

public opinion, anti-scientific attitudes, vo	ting behavior	energy cycle, nitrogen fertilizer, nutrient cycle, soil structure, food chain 1976 Sept p 74-86
cavities down 47 per cent	1955 Feb p 35-39 [453] 1952 Oct p 38	agricultural history, animal domestication, archeology, plant
fluoridation politics USA	1961 Jan p 79	domestication 1976 Sept. p 88–97
fluoride, calcium held in bone and teeth	1967 Jan p 58	agricultural economics, agricultural system, cropping systems
fluorine, fluorocarbons, plastics, stable and p		1976 Sept p 98–105
	1949 Nov p 44-4 /	agricultural economics, food processing, US agriculture, 'agribusiness'
elements, living matter, essential elements,	metallo-enzymes, silicon,	1976 Sept p 106–123
tin, vanadium, list of elements essential	to life lengthened to 24	'green revolution', agronomy, maize, potatoes, Mexican agriculture 1976 Sept p 128-150
	1972 July p 52–60	'green revolution', India, technology transfer, monsoons, irrigation,
fluorine poisoning, Java man bone disease	1970 Apr p 48	fertilizers, rice, agronomy, wheat, hybrid crop plants
fluorocarbons, plastics, fluorine, stable and p	1949 Nov p 44–47	1976 Sept p 154–163
in production	1951 Dec p 38	agricultural resources, gene manipulation, irrigation, photosynthesis
fortified by nitrogen	1956 Oct p 68	1976 Sept p 164-178
flute, musical instruments, vibrating air colu	mn, clarinet, oboe, bassoon.	agronomy, crop yields, plant breeding, rice, wheat, maize, plant
English horn, saxophone, physics of the	wood winds	genetics 1976 Sept p 180–194
	1960 Oct p 144–154	developing countries, 'green revolution', technology transfer, economic
flux compression, high-pressure technology,	magnetism, ultrastrong	development 1976 Sept p 196–205 world food production 1976 Sept p 66
magnetic fields, explosive compression,	1965 July p 64–73	world food production 1976 Sept p 66 Food and Agriculture Organization, see FAO
fluxtrap, superconductivity, low-temperatur		Food and Drug Administration, see FDA
strength, superconductive motor, super	conductive bearing.	food chain, algae, phytoplankton, kelp, algın, agar 1952 Dec p 15-17
superconductive amplifier, applications	of superconductivity	foodchain, human population ecology, population density, 'the human
	1960 Mar p 74-82	crop' 1956 Apr p 105–112
fly ash, air pollution, catalysis, combustibili	ty, dust storms, metallurgy,	blue whale, sonar, krill, whaling, natural history of the largest animal
fine particles	1950 Dec p 50-53	1956 Dec p 46-50
air pollution, corona discharge, electroco	ating, electrostatics,	plankton, krill, whale, Antarctic convergence, Euphausia superba
photocopying xerograpliy, electrostati	c precipitation and seperation	1958 Jan p 84-89 [853] ecology, energy cycle, biomass, solar energy, element abundance,
flyball governor, feedback, control loop, ser	1972 Mar p 46–58	autotrophs, heterotrophs, the ecosphere 1958 Apr p 83–92
feedback, negative feedback, ecologica	system, nervous system.	Antarctica, oceanography, manne biology, krill, blue whale, ecology,
economic system, automatic control, fe	edback concept	Antarctic convergence, biological province of Antarctic convergence
	1952 Sept p 48-55	1962 Sept p 186-210
control systems, feedback, water clock, the	nermostat, windmills,	DDT residues, insecticide, fallout, ecological cycles, ecological
automatic control, origins of feedback	control 1970 Oct p 110-118	redistribution of pollutants 1967 Mar p 24-31 [1066]
'flying spot' microscope, microscopy, ultrav	iolet radiation, ultra-	predation, plant toxins, milkweed, blue jay, predator-prey relationship,
microscopy of living cells flywheels, automobile propulsion, electric p	1958 May p 38-43	mimicry, ecology, chemical defense against predation 1969 Feb p 22-29 [1133]
storage, composite materials, material	s technology	sea, plankton, marine ecology, ocean, fish, marine life, life in the ocean
storage, composite materials, material	1973 Dec p 17-23	1969 Sept p 146–162 [884]
fog, cloud seeding, water cycle, air pollutio	n, water drop, ice crystals,	ocean, fisheries, food supply, food resources of the ocean
inversion layer, smog	1968 Dec p 74-82 [876]	1969 Sept p 178–194 [886]
folic acid, metabolite antagonists, imitative	drugs, sulfa drugs, para-	calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, insecticide.
aminobenzoic acid folklore, opossum, marsupial, natural histo	1951 Apr p 60-63	ecological effect of pesticides 1970 Apr p 72–78 [1174]
follicle-stimulating hormone, ACTH, horm	one, sexual characteristics.	solar radiation, photosynthesis, biosphere, agricultural ecosystem,
growth, thyroid-stimulating hormone,	prolactin, androgens,	climax ecosystem, energy cycle, ecosystem, respiration, biosphere
cstrogens, secondary sexual characters	stics, human physiology,	energy cycle 1970 Sept p 64-74 [1190]
endocrine system, chemical integrator	s of the body	energy cycle, Eskimo, hunting societies, seal, power, Baffin Island,
(following hour away to an amount to an	1957 Mar p 76–88 [1122]	ecosystem 1971 Sept p 104–115 [665]
'following bow' experiment, musical instruit Raman waves, 'wolf' note, physics of		forest communities, lichens, ecology, algae, nitrogen cycle, treetop ecosystems 1973 June p 74-80 [1274]
raman waves, won note, physics of	1974 Jan p 87–95	biological wax, copepod lipids, coral reef wax, manne wax, metabolic
Folsom man, New World archeology, ston		fuel 1975 Mar p 76-86 (1318)
	1951 Feb p 15-19	energy cycle, nitrogen fertilizer, nutrient cycle, soil structure, food and
rib found	1953 Apr p 52	agriculture 1976 Sent p. 74-86
antedated Folsom points, Clovis culture, hunting, ma	1954 Sept p 76	food coloring, flavoring, food additives, food preservatives, texture agents,
World archeology, elephant extinction		safety of additives 1972 Mar p 15-21 food gathering, hunting, herding, tribal cultures, agricultural society,
food, marine biology, human nutrition fo		aboriginal culture, India, 'living prehistory' in India
	1949 Oct p 16-19	1967 Feb p 104-114
snail, Helix pomatia, natural history	1957 Aug p 113~118	food plants, botanical collections, herbarium resources, pharmacology
fisheries, aquaculture, proteins, tilapia,		1977 May p 96-104 [1359]
food additives, flavoring, food coloring, fo	1963 May p 143~152	food poisoning, leftover Hollandaise 1951 Apr p 37 food preservation, hypobanc storage 1976 June p 54
safety of additives	1972 Mar p 15–21	food preservation, hypotanic storage 1976 June p 54 food preservatives, flavoring, food additives, food coloning, texture
agene, flour bleach banned	1949 Jan p 28	agents, safety of additives 1972 Mar n. 15.21
carcinogenic additives	1956 Oct p 68	food processing, fluidization, petroleum cracking, particle bed.
Delancy clause in USA legislation food and agriculture, economic developm	1960 May p 89	turbulence, gas stream 1968 Tul. = 04 104
population, introduction to single-to	pic issue on food and	agricultural economics food and agriculture, US agriculture,
agriculture	1076 Sent n 30 30	food production, human nutrition, population, U N technical agencies
developing countries poverty, hunger,	malnutration, human nutration	FAO. 'the food problem' 1950 Aug p. 11-15
amino-acid deficiencies dietary requir	1976 Sent n 40-40	algae, chlorella
metabolism	1976 Sept p 50-64	on the control population growth. Malthusian doctrong developing
	1210 Schr b 20-04	countries Julian Huxley on world population growth
- The second sec		1956 Mar p 64-76 [616]
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economic development, agricultural technology, technology transfer,	forest fire, ecology, fire, forestry, grassland, role of fire in climax ecology
non in dutition, patrition if self-sufficiency in economic	1001 A The cology
1963 Sept. p. 73_86 (115)	31 forest management 4 mayor to 1961 Apr p 150-160 [1099]
economic development, industrialization, population, control	The state of the s
agricultural production, technology transfer, economic of immo-	resource prespecting, economic planning, mineral resources, electric
India, economic development by democratic planning	power, the Amazon frontier 1948 May p 11-14
1963 Sept p 189 20	forest products, cellulose, rayon, crystal structure, lignin, polymers, paper,
plant growth, fertilizers, chemical industry, agricultural technology,	the state of the polyther (3) Sept b (30–10)
increasing world food supply 1965 June p. 62-72	wood pulp, paper, cellulose, lignin, rayon, waste recycling, kraft
	2 process 1974 Apr p 52-62
proteins, petroleum, petroleum fermentation 1965 Oct p 13-13	forest succession, ecology, trees, leaf distribution
agricultural technology, poultry production, anunal husbandry,	1975 May p 90-98 [1321]
clincken, eggs, US clincken factories 1966 July p 56-64	
plant hybrids, wheat, hybrid wheat, agronomy 1969 May p 21-25	Northeast U.S. 1948 Nov. p. 20-23
human population fertilizers, pollution, irrigation, biosphere,	oak blight, fungi, threat to US oak population 1957 May p 112-122
agricultural revolution, soil erosion, biosphere capacity to produce	ecology, fire, grassland, forest fire, role of fire in climax ecology
1970 Scot p 160-170 (1196)	1061 Apr = 150 160 (1009)
food sharing, chimpanzee, hunting, carnivorous chimpanzees, ominiorous	land use, grazing, rangeland, agricultural resources, land management,
chimpanzees, feeding behavior, Gombe National Park, Tanzania	US Western states 1970 Feb p 88-96 [1169]
1973 Jan n 32-42 [382]	nitrogen fixation, ecosystem, resource management, runoff, étosion,
food supply, kwashiorkor, malnutrition, diet, human nutrition	watershed, deforestation, deforestation experiment
1954 Dec p 46-50	1970 Oct p 92-101 [1202]
deer, hunting, population control 1955 Nov. p. 101-108	
mouse, population control, animal migration 1955 Dec p 92–100	
malnutrition, human population, hunger, human nutrition, Incaparina,	1971 Nov p 94-103
eland, capybara, manatee, mussels, developing countries,	cliemotherapy for blister rust 1961 Jan p 86
unorthodox food sources 1967 Feb p 27-35 [1068]	forgetting, learning, memory, proactive and retroactive interference
ocean, food chain, fisheries, food resources of the ocean	1964 Mar p 91-99 [482]
1969 Sept. p. 178-194 [886]	learning, retroactive inhibition, proactive inhibition, recall, interference
land reform, agricultural technology, population growth, FAO,	tlicory 1967 Oct p 117–124 [309]
human nutrition, I'A O Indicative World Plan	foreing, crystal structure, dislocations, metal forming, strain hardening
1970 Aug p 54-69 [1186]	creep in metals 1975 Apr p 116-125
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1976 Feb p 60-75	fortification illusions, migraine headaches, neurophysiology, optical
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help date start of Pleistocene 1963 Mar p 76	1956 July p 83–92 [101] Neopulma galatheae 1957 Sept p 114
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by coral rings 1966 Oct p 26–33 [871]	free radicals, ionizing radiation photoelectric effect. Compton effect
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Armstrong 1954 Apr p 64 69 coal-burning 1952 Oct p 40 frequency response, control systems, automatic control, fuel consumption, economic development, energy technology, servomechanisms, actuators, pneum the servomechanisms, hydraulic industrialization, population, energy resources, energy requirements servomechanisms, control systems 1952 Sept p 56-64 and resources for economic development 1963 Sept p 110-126 control theory, mathematics, cybernetics, computer programming, automobiles, energy conservation, engine efficiency feedback, stability, dynamic programming, 'policy' concept 1975 Jan p 34-44 1964 Sept p 186-200 spare tire, jettison the 'Fifth wheel'? 1978 Apr p 88 Fresnel rings, Moire patterns, optics without lens, properties and uses fuel-conversion efficiency, energy transformation, energy demand power, 1963 May p. 54-63 [299] prime movers, steam turbines, magnetohy drody namies gas turbine, Freud, psychoanalysis, dreams 1949 May p 44-47 [495] internal combustion engine, fuel cell, solar cells, power, nuclear psychoanalysis, biography and appraisal of Sigmund Frend at \$2 power, comparative efficiencies of energy transformation pathways 1949 Oct p 50-54 in industrial civilization 1971 Sept p 148-160 [668] frietlon, Leonardo, Coulomb, technology lustory, sliding surfaces, fuel-element fabrication, 'atoms for peace', nuclear power, nuclear fuel, molecular cohesion, 'coppering' 1951 Feb p 54-58 uranium ore, Geneva chemistry 1955 Oct p 34-37 stick-slip friction, bearing, violin bow, lubrication, uses and prevention fuel Imports, energy resources, liquid natural gas technology assessment, of friction 1956 May p 109-118 1977 Apr p 22-29 risk estimation, tankers, LNG bearing, mechanical engineering, lubrication, sliding rolling, fuel rods, energy economies, fission reactor, nuclear power, design of pressurized-contactless bearings 1959 Feb p 37-43 1966 Mar p 60-71 reactor fuel elements perpetual motion machines, entropy, thermodynamics fundamental reasoning, probability, statistics, mathematical proof, 1953 Sept p. 128-138 1968 Jan p 114-122 fundamental research. What is probability? bearing, gears, technology history, Leonardo, Codex Madrid I fundamental research, NSF, science funding, university research. 1948 June p 7-11 1971 Feb p 100-110 science education Beilby fayer, ferrograph analysis, fubrication, michine wear, metal curiosity, science funding, 'mission-oriented' funding agencies fatigue, partieles of wear, wear university science, NSF, introduction to a single-topic issue on 1974 May p 88-97 1953 Sept p 47-51 bearing, lubrication, journal bearing, wear fundamental questions in science 1975 July p 50-64 frog, salamander, regeneration, embryonic development, nerve fibers, role matter, wave-particle duality, energy levels, electromagnetic force, nuclear forces, gravitation, field theory, quantum jumps, corpuscular of nerve fibers in regeneration 1958 Oct p 79-88 1953 Sept p 52-57 [241] tadpole, thyroid hormone, amphibian metamorphosis, chemistry of streams what is matter? electromagnetic force, nuclear forces, proton, neutron, mesons, particle amphibian meiamorphosis 1963 Nov p 110-118 [170] scattering, high-energy physics, what holds the nucleus together? amphibian, color vision, retina, retinal image-processing, visual 1953 Sept p 58-63 perception, retinal processing of visual sensation cosmic radiation, massive nuclei, high-energy physics, Milky Way, 1964 Mar p 110-119 magnetic field, particle acceleration, supernovae, where do cosmic amphibian, metamorphosis, thyroxin, pituitary gland, hypothalamus. 1953 Sept p 64-70 [239] neurosceretory system, hormone, chemistry of amplithian rays come from? stellar populations, stellar evolution, galactic rotation, galactic 1966 May p 76-88 [1042] metamorphosis 1953 Sept p 89-99 1950 May p 46-47 evolution. 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RNA molecule memory, brain, learning, cerebral cortex, What is memory? frog embryo, cell differentiation, nucleus transplantation, clone, genetic 1953 Sept p 118-126 [11] engineering, somatic cell nucleus, gene complement, gene regulation probability, statistics, mathematical proof, fundamental reasoning 1968 Dec p 24-35 [1128] 1953 Sept p 128-138 frontier history, eavalry, Mongol conquests, war, Chingis Khan, nomatic What is probability? 1954 Mar p 29-33 1963 Aug p 54-68 civilization, Chingis Khan, biography NSF, science funding university science NSF, 'mission-oriented' funding agencies, science funding frontier life, Britain, Roman Britain, Hadnan's Wall, Vindolanda site institutional grants, science policy, project grants, university science, 1977 Feb p 39-46 [692] problems in government support of science in the US frost, ice, snow, water, supercooling, condensation nuclei, ice worms, how 1965 July p 19-25 1959 Feb p 114-122 water freezes funerary monument, archeology, Nemrud Dagh, burnal site Turkey, tomb frostbite, capillary bed, rapid thawing prescribed 1952 Feb p 52-56 1956 July p 38-44 cryogenic storage, spermatozoon bank, tissue preservation, freezing of of Antiochus I fungal hyphae, rain-forest ecosystem, slash-burn agriculture, ecological 1956 June p 105-114 living cells 1973 Dec p 58-67 [1286] 1953 Apr p 52 fragility, tropical rain forest frozen blood cells, stabilized with glycerin fungal infection, histoplasmosis, respiratory infection, airborne infection frozen free radicals, Jupiter, imine radical, hydrazine radical, low 1948 June p 12-15 epidemiology, coccidioidomycosis 1956 June p 119~128 temperature physics modelling of Jupiter eelgrass, marine ecology, foodchain, ecology, account of an ecological cryogenics, free radicals, free radicals trapped for study 1951 Jan p 52-55 catastrophe 1957 Mar p 90-102 [263] potato blight, plant genetics, late-blight of potatoes 1953 Aug p 46 fruit flies homogenized, chemically distinguishable 1959 May p 100-112 [109] fruit fly, gene mutation, insect eye, paper chromatography, fractionating disease-resistant plants, plant breeding, agronomy, plant disease, plant 1962 Apr p 100-110 [1166] pathogens, sugarcane, mechanism of disease resistance in plants the fruit fly cell culture, cell differentiation, larvae, transdetermination 1975 Jan p 80-88 [1313] 1968 Nov p 110-120 [1127] sexual behavior, releaser stimulus, courtship song, insect behavior, fungi, mycology, wheat rust, ergot, potato blight, morel, amanita, Penicillium notatum, yeast, molds and men 1970 July p 84-92 species specificity 1952 Jan p 28-32 [115] gene loci, genetics of behavior, insect behavior, genetic mosaic, mutants wheat, einkorn, wild einkorn, emmer, hybrid cells, chromosome 1973 Dec p 24-37 [1285] doubling plant breeding, origin and perfection of wheat 1954 May p 40-44 [118] 1953 July p 50-59 fruit pectin, ethylene fuel cell, battery, electric power generation, energy transformation, mushrooms, plant growth mycelium, burgeoning explained energy economics, direct conversion chemical to electric energy 1956 May p 97-106 1959 Oct p 72-78 oak blight forestry, threat to US oak population

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zero-energy thermonuclear assembly (Z E T A) 'Per	rhapsatron'	galactic formation, comet, nebular hypothesis, solar system of	
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Geneva conference on thermonuclear research	1958 Nov p 52	radio source, extragalactic radio source as origin of cos	o astronomy,
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		evidence for particles of 10" evenergy 1959 No	os n 134_146
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galactic radiation, gravitational waves, gravitation	und-radiation detector.	Juniter Toward total transfer and the second of the second
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'yardstick'	1961 Jan n 107-119	galvanic cell, pH, glass electrode, hydrogen ions, acidity
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galaxles, astronomy, red shift, galactic recession,	1953 Apr. p 66–72 [22	galvanomagnetism, Ettingsliausen effect, Hall effect, Nernst effect, Right Leduc effect, thermomagnetism, science history, industrial
science, stellar evolution, general relativity, a	stronomy 1900-1950	technology, technological applications of 19th c discovenes
turbulana ashuta ashara da ta	1950 Sept p 24-27	1961 Dec p 124-136
turbulence, nebulae, galactic clusters, lucrarchy	1952 June p 26-30	gambler's fallacy, probability, law of large numbers, random walk, mathematical proof, philosophy of science 1950 Oct p 44-47
cosmology, red shift, universe expansion, univer		gambling, psychology, probability, decision making, subjective
recession velocity, galactic clusters, observati	onal cosmology	probability, Monte Carlo fallacy, subjective and objective
PI I seested objects suggests and a set-one	6 Sept p 170-182 [240]	probability 1957 Nov p 128-138 [427] games theory, mathematics, decision theory, work of J Von Neumann
BL Lacertae objects, quasars, radio astronomy	977 Aug. p 32-39 [372]	and O Morgenstern 1949 May p 22-25
pregalactic formations	1963 Fch p 65	uncertainty principle, decision theory, probability, pure strategy, card
Local Group, Maffer 1 and 2	1971 Mar p 44	games illustrate theory 1951 Jan p 44-47 decision theory, minimax, pure strategy, mixed strategy, worst-case
gnlnxy, stellar evolution, massive stars, nebulae, st massive stars are short-lived	1956 Feb p 36-41	analysis 1955 Feb p 70-05
radio astronomy, interstellar hydrogen, radio sta	ir, the radio sky	human conflict, probability, zero-sum game, military strategy, use and
. It was a sure and a till a manufation of	1956 July p 32-37	misuse of game theory 1962 Dec p 108-118 logic, computer theory, algorithms, problem solving, Turing machine
stellar evolution, universe, stellar populations, sp distribution of 'population I' and 'II' stars in l		1965 Nov p 98-100
	1956 Scpt p 92-99	mathematical logic, paradox, decision theory, 'metalogic' to solve paradox 1967 July p 50-56
spiral structure, interstellar hydrogen, radio astro	onomy galactic 59 Aug p 44-51 [250]	gametocs te, biological clock, malaria, Plasmodium, parasitismi
nuclcus, mapping the local Galaxy 19 radio astronomy, spiral arms, interstellar hydroge	en, mapping the spiral	reproduction mosquitoes 1970 June p 123–131 [1181]
arms of the local Galaxy	1959 Dec p 92~104	Gamma Draconis, Earth, orbital motion, stellar aberration, discovery of stellar aberration by James Bradley 1964 Mar p 100-108
Clouds of Magellan, stellar evolution, ultraviolet	radiation 1964 Jan p 32-41	gamma radiation, forest ecosystem, X-ray, white oak, atomic bomb test,
Doppler effect, hydroxyl radical, microwaves, rad	lio-absorption, gas	weeds, environmental pollution, ecological effects of high-energy
clouds	1965 July p 26-33	DDT soil pollution, herbicide, X-ray, soil ecology
M82 as supersupernova	1963 Sept p 86 1966 Apr p 50	1969 Apr p 88–99 [1138]
X-ray galaxies see also galaxies, galactic evolution, galactic magi	netism, galactic halo,	atomic nucleus, chemical bond, energy levels, molecular structure, Mossbauer spectroscopy 1971 Oct p 86-95
3.4.11 Wass colocate clusters		antimatter, crystal structure, gravitational interaction, positron probes,
galaxy M 82, cosmic radiation, radio galaxies, synch exploding galaxies, proposed origin of cosmic radiation.	473	solid state physics, scintigraph 1975 July p 34-42
	1904 NOV p 30- 17	gamma radiation spectrometry, variation of scintillation counter 1950 July p 28
galaxy-occulting galaxy, a gravitational lens galaxy shapes, galactic interactions, intergalactic tide	1950 Aug p 30 es, gravitational	gamma-ray astronomy, astronomy, Earth satellite, telemetry, first glimpse
		of gamma-ray sky 1962 May p 52-61 black hole, cosmic radiation, neutron stars, pulsar, satellite astronomy.
	lar formation,	Cygnus X-1 1976 Oct p 66–79A
supernovae, galactic dust clouds, nebulae, Guin	1972 Aug p 48-61	gamma ray star, Sagittarius 1969 Nov p 57 gammaglobulin, poliomyelitis, epidemiology, immunity, blood
globules Galen, medical history, human anatomy, Galen, wor	k and influence	fractionation, vaccine 1953 July p 25–29
Tomatan frames of	957 Mar p 105-114 f reference,	bacterial infection, blood proteins, antibodies, immunology, tissue
Galilean relativity, gravity, inertia, Einstein, frames o philosophy of science, relativity, identity of inert	na and gravity	grafts, agammaglobulinemia, hereditary immunological deficiency 1957 July p 93-104
pimosophy of science, remains,	1957 Feb p 99–109	antibodies, antigens, antigen-antibody reaction, antibody-antigen
Galileo, moons of Jupiter, inertia, gravity, Galileo, bi	1949 Aug p 40–47	specificity 1957 Oct p 99–106 ganglion cells, color vision, retina, cone cells, pigments,
appraisal falling-body velocity, free fall, Merton rule, science	history 1973 May p 84-92	spectrophotometry, three-color receptor system
turing conj	17/2 IVIAY P 04-7-	1964 Dec p 48-56 [197]

ganglion reflexes, cell communication, central nervous system, nerve	charmonium, charmed quarks, high-energy physics, hadrons, leptons, quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct p 38-50
conduction, neuroreceptors, retina, nerve impulse, neurotransmitters, neural synapse, cytology, neuromuscular synapse,	Gauls in France, Celtic religion, Seine River source, shrine of Sequana
how cells communicate 1961 Sept p 209-220 [98]	1971 July p 65-73
Ganymede, Galileo, Jupiter, Jovian satellites, solar system, Europa, Callisto, Io 1976 May p 108-116	Gauss, mathematics history, number theory, Disquisitiones Arithmeticae 1977 July p 122-131 [371]
gas, pipelines, fluid dynamics, oil, slurries, history and technology of pipelines 1967 Jan p 62-72	gears, bearing, friction, technology history, Leonardo, Codex Madrid I 1971 Feb p 100-110
pas chromatography, chemical separation, sensitivity and application	gegenschein, gas-tail hypothesis 1971 Aug p 47
1961 Oct p 58–67 [276]	Geiger counter, exoelectrons, metal fatigue, metal-surface defects, wear 1977 Jan p 74-82 [350]
fossil record, organic molecules, sedimentary rock, chlorophyll, hydrocarbons, 'chemical fossils' 1967 Jan p 32-43 [308]	gemstones, diffraction, grain structure, opal colors, periodic structures,
high sensitivity 1958 Apr p 52	silica-sphere packing 1976 Apr p 84-95
bacterial 'signature' 1966 July p 54	gene action visualized, DNA transcription, electron microscopy, nbosome, mRNA 1973 Mar p 34-42 [1267]
gas clouds, Doppler effect, hydroxyl radical, microwaves, galaxy, radio- absorption 1965 July p 26~33	gene activation, actinomyosin, ecdysone, cortisone, insulin, estrogens,
gas compression, shock waves, shock tube, high temperature, plasma,	RNA synthesis, aldosterone, growth hormone, ACTH, thyroxin,
mechanically and electromagnetically driven shock waves 1963 Feb p 109-119	mechanism of hormone action 1965 June p 36-45 [1013] gene complement, hybrid cells, DNA, RNA, ribosomal RNA, gene
gas exchange, thorax, lung, pulmonary ventilation, breathing, alveoli-	transcription, density-gradient centrifugation, DNA-RNA
human physiology, vital capacity, mechanics and physiology of	hybridization experiments 1964 May p 48-56
breathing, anatomy of lung 1966 Feb p 56-68 [1034]	cell differentiation, nucleus transplantation, clone, genetic engineering,
lung, gill, oxygen transfer, carbon dioxide, water-breathing by mammals, breathing, animal experiments in water-breathing	somatic cell nucleus, frog embryo, gene regulation 1968 Dec p 24-35 [1128]
1968 Aug p 66-74 [1123]	gene culture, polyoma virus, cell transformation, SV40 virus, viral DNA,
gas hydrates, clathrates, inclusion compounds, crystallography, inclusion	viral carcinogenesis 1967 Apr p 28-37 [1069]
compounds in biology and technology 1962 July p 82-92 [280]	gene expression, neurospora, mutation, natural selection, Mendelian inheritance, genetic disease, tryptophan-niacin relation, one gene-
gas injection, petroleum, water injection, secondary recovery 1965 July p 34-42	one enzyme hypothesis, selection for defect 1948 Sept p 30-39 [1]
gas kinetics, Monte Carlo method, computer modeling, mathematical	phenotype, genotype, mutation 1949 Oct p 46-49
model, chemistry by computer 1964 July p 100–108	agammaglobulinemia, alkaptonuria, Wilson's disease, congenital
gas laser, Raman laser effect, solid-state lasers, diode junction laser, laser technology in rapid development 1963 July p 34-45 [294]	anomahes, chemistry of hereditary disease, one gene-one enzyme hypothesis 1956 Dec p 126-136
carbon dioxide, laser, infrared radiation, nitrogen, physics of carbon	cancer, multipotential cells, tumor, teratoma, plant cell, inhibitions
dioxide laser 1968 Aug p 22-33	1965 Nov p 75-83 [1024]
Doppler effect, energy levels, laser spectroscopy, spectroscopy 1973 Dec p 69-85	phagocytosis, repressor molecules, operator-repressor system, lac repressor, lambda repressor, isolation of two gene repressors, how
gas molecules, molecular beam, electron theory, resonance absorption,	they work 1970 June p 36-44 [1179]
atomic radiation, coherent radiation, nuclear magnetic resonance,	DNA operator, DNA repressor, gene regulation, host-restriction
Stern-Gerlach experiment 1965 May p 58-74 gas phase, superfluidity, helium 3, liquid phase, solid state physics,	endonuclease, operator-repressor system 1976 Jan p 64-76 [1333] genetic engineering, frog eggs, hemoglobin, mRNA, RNA molecule
quantum effects, quantum fluids, phase transitions	1976 Aug p 60-71 [1343]
1976 Dec p 56-71	bactenophage structure, latent viruses, provirus, virus action,
gas plasma, ball lightning, nuclear fusion, ionization, Kapitza theory, Hill theory 1963 Mar p 106-116	coexisting viruses, viral genes in host chromosome 1976 Dec p 102-113 [1347]
gas separation, laser, laser-light pressure, radiation pressure, isotope	repressors isolated 1967 June p 52
separation, 'optical bottle', atomic and molecular beams	bind to gene operators 1974 June p 48
1972 Feb p 62-71 gas stream, fluidization, petroleum cracking, particle bed, turbulence,	gene fusion, large, two-function enzymes 1971 Jan p 46 gene isolation, DNA fractionation, ribosome, ribosomal RNA-coding
food processing 1968 July p 94-104	genes 1973 Aug p 20-29 [1278]
gas turbine, aircraft propulsion, centrifugal compressor, axial-flow	comparative religion, ethnic groups, Israel, Judaism, Samaritans,
compressor, ducted fan, electric power generation 1953 Nov p 65-72	Holon and Nablus communities 1977 Jan p 100–108 [690] isolation of single gene 1962 Apr p 77
energy transformation, energy demand, fuel-conversion efficiency,	lac operon 1970 Jan p 50
power, prime movers, steam turbines, magnetohydrodynamics,	gene loci, fruit fly, genetics of behavior, insect behavior, genetic mosaic,
internal combustion engine, fuel cell, solar cells, power, nuclear power, comparative efficiencies of energy transformation pathways	mutants 1973 Dec p 24-37 [1285] gene manipulation, electrophoresis, sex determination, spermatozoon
in industrial civilization 1971 Sept p 148–160 [668]	motility, sorting out Y-bearing sperm by electrophoresis
coal gasification, pollution control, oil gasification, energy resources	1958 Nov p. 87-94
single-crystal blades 1972 Oct p 26–35 1967 Feb p 58	resource management, grafting techniques, forestry, Southern pine, tree farming, seed-orchard concept 1971 Nov p 94-103
gas vacuoles, algae, algal bloom, blue-green bacteria, cyanobacteria	molecular cloning, plasmids, recombinant DNA, Asilomar conference,
1977 Aug p 90-97 [1367] gasification processes, coal gasification, energy resources, Lurgi process,	hazard evaluation 1975 July n 24_33 (1324)
riygas process, synthane process CO ₂ acceptor process, coal	agricultural resources, irrigation, photosynthesis, food and agriculture 1976 Sept p 164-178
technology 1974 Mar n 19-25	gene splicing, National Academy of Sciences, recombinant DNA
gasoline from coal, Bureau of Mines pilot plant 1951 Jan p 28 gastrointestinal gas, hydrogen from colon 1969 Sept p 95	science policy, NIH guidelines 1977 July p 22–23 [1362]
gastrula, cell differentiation, embryonic development, blastula.	gene mapping, DNA, chromosome, bacteriophage, mapping genes by
ierulization, ectoderm, mesoderm, endoderm embryological	induced and spontaneous mutations 1962 for m 70 PA (120)
'organizer', science history, review of classical embryology 1957 Nov p 79-88 [103]	bacteriophage, amber mutants, virus particles
gauge theory, particle interaction, high-energy physics, field theory.	protein structure amino-acid sequence, gene-protein colinearity, DNA
weak force, electromagnetic force, 'strong' force 1974 July p 50-59 electromagnetic force, particle interaction, neutrino interactions 'weak'	structure, mutation, base 1967 May p 80-94 [1074]
force, neutral-weak-current interactions 1974 Dec p 108-119	
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galactic radiation, gravitational waves, gravitational-radiation detector, relativity theory 1971 May p. 22-2	Jupiter, Joseph vitellite, solar system Europa Callisto Garanedelo
gametre radio sources, radio astronoms, radio y davies	Galileo's Cape riments from fill terminal almost somether conference of
galactic recession, cosmology, red shift, element abund ince, 'synthetic' clements, universe expansion 1948 July p. 20-2	1975 Mar p 102-111
astronomy, galaxies, red shift, universe expansion, science, stellar	তি বিচাৰিত's heresy, Hruno science history, Copernican resolution,
evolution, general relativity, astronomy 1900, 1950 1950 Sept. p. 24-2	martyrdom of Giordano Brino re-examined 1973 Apr p 86-94
galactic rotation, stellar populations, stellar evolution, galactic evolution, fundamental research. Why do galaxies have spiral form?	slide rule, sexton 1976 Apr p 104-133
1953 Sept. p. 89-99	Galley Hill skull, Homo sapiens, Neinderthal man, Charente skull human evolution, Swanscombe cranium antiquity of Homo sapers
galactic structure, Clouds of Magellan, spiral galaxies, radio astronomy	1943 July p 16-19
resolution of structure of nearest galaxies 1956 Apr. p. 52-55	gallinm arsenide, electric field. Gunn effect, microwave emission regains resistance, solid state physics, electronics, solid state microwave.
stellar populations, spiral arms, stellar elassification and structure of galaxies 1958 Nov. p. 44-50 [203]	generation 1966 Aug. p 22-31
galactic survey, Palomar Observatory, Hale telescope, Schmidt telescope	gallstones, crystal structure, lithiasis, kidney calculi, X-ray diffraction, bladder stones, urinary calculi 1968 Dec p 104-111
cosmology, 200-inch and 48-inch Palomar telescopes	Galton, correlation theory, eugenses, dermatoglyphics, life and work of
galactic yardsfield, universe expansion, Cepheid variable, Clouds of	Francis Galton, regression to mean 1954 Jan p 72-16
Magellan, Andromeda Galaxy, doubling of yardstick doubles size	Galvani, animal electricity, voltaic pile, a major discovery in physics as well as biology 1950 Feb p 49-43
and age of the universe 1953 June p. 56-66	battery, electrochemistry, electric power, Volta, Volta's contributions
spectroscopy, stellar distances, calcium absorption lines supply new 'yardstick' 1961 Jan p. 107-119	biography 1965 Jan p 82-91
'yardstick' 1961 Jan p 107-119 Galapagos Islands, Darwin's finches, speciation, evolution	galvanic cell, p11, glass electrode, hydrogen ions acidity 1951 Jan p 40-43
1953 Apr. p. 66-72 [22]	gali anomagnetism, Ettingshausen effect, Hall effect, Nemst effect, Right
galaxies, astronomy, red shift, galactic recession, universe expansion, seience, stellar evolution, general relativity, astronomy 1900-1950	Ledue effect, thermomagnetism, science history, industrial
1950 Sept p 24-27	technology, technological applications of 19th c discoveries 1961 Dec p 124-1%
turbulence, nebulae, galactic clusters, lucrarchy of turbulence in space	gambler's fallacy, probability, law of large numbers, random walk.
1952 June p 26-30 cosmology, red shift, universe expansion, universe, spectroscopy.	mathematical proof, philosophy of science 1950 Oct p 44-47 gambling, psychology, probability, decision making, subjective
recession velocity, galactic clusters, observational cosmology	probability Monte Carlo fallocy subjective and objective
1956 Sept p 170-182 [240] BL Lacertae objects, quasars, radio astronomy	probability 1957 Not p 128–136 [421]
1977 Aug p 32–39 [372]	games theory, mathematics, decision theory, work of J Von Neumann and O Morgenstern 1949 May p 22-25
pregalactic formations 1963 Feb p 65	uncertainty properly design theory probability pure strategy, card
Local Group, Maffer 1 and 2 1971 Mar p 44 galaxy, stellar evolution, massive stars, nebulae, stellar associations,	games illustrate theory
massive stars are short-lived 1956 Feb p 36-41	analy ere 1900 Fee P
radio astronomy, interstellar hydrogen, radio star, the radio sky	human conflict, probability, zero-sum game, military strategy, use and misuse of game theory 1962 Dec p 108-118
stellar evolution, universe, stellar populations, spiral galaxies,	leave as well as the search of the selection of Turing machine
distribution of 'population 1' and '11' stars in local Galaxy	1903 NOV P 30 TO
1956 Sept p 92–99	mathematical logic, paradox, decision theory, 'metalogic' to solve paradox 1967 July p 50-56
spiral structure, interstellar hydrogen, radio astronomy, galactic nucleus, mapping the local Galaxy 1959 Aug p 44-51 [250]	A t t t t t Diamandum magazitism
radio astronomy, spiral arms, interstellar hydrogen, mapping the spiral	reproduction, mosquitoes 1970 June p 123-131 [186]
arms of the local Galaxy 1959 Dec p 92-104 Clouds of Magellan, stellar evolution, ultraviolet radiation	ctaller aberration by lames Readles 1904 Mai P
1964 Jan p 32-41	gamma radiation, forest ecosystem, X-ray, white oak, atomic bomb itsi
Doppler effect, hydroxyl radical, microwaves, radio-absorption, gas	weeds, environmental pollution, ecological effects of high-energy radiation 1963 June p 40-49 [159]
M82 as supersupernova 1963 Sept p 86	DDT, soil pollution, herbicide, X-ray, soil ecology 1969 Apr p 88-99 [1138]
Y-ray galaxies 1966 Apr p 50	stame avalous phomes I hand anargy levels malerular structure
see also galaxies, galactic evolution, galactic magnetism, galactic halo, Milky Way, galactic clusters	Moschauer spectroscopy 1971 UCL P 00 7
galaxy M 82 cosmic radiation, radio galaxies, synchrotron radiation,	antimatter, crystal structure, gravitational interaction, positron probes solid state physics, scintigraph 1975 July p 34-42
exploding galaxies, proposed origin of cosmic rays 1964 Nov p 38-47	The state of the s
galaxy-occulting galaxy, a gravitational lens 1950 Aug p 30	1950 July p
galaxy shapes, galactic interactions, intergalactic ides, gravitational	of gamma-ray sky
colors structure interstellar matter. Milky Way, stellar formation,	black hole, cosmic radiation, neutron stars, pulsar, satellite astronomy, Cygnus X-1 1976 Oct p 66-79A
supernovae, galactic dust clouds, nebulae, Outil 14coula, 1972	gamma ray star Sacuttarius 1969 Nov P 37
groomes burner anatomy Galen, work and influence	gammaglobulin, poliomyelitis, epidemiology, immunity, blood
	bacterial infection, blood proteins, antibodies, immunology, tissue
Galilean relativity, gravity, inertia, Einstein, frames of reference, philosophy of science, relativity, identity of inertia and gravity	grafts, agammaglobulinemia, hereditary immunological deficiency 1957 July p 93-104
	antibody antigens antigen-antibody reaction, antibody-antigen
Galileo, moons of Jupiter, inertia, gravity, Galileo, biography and 1949 Aug p 40-47	specificity ganglion cells, color vision, retina, cone cells, pigments
appraisal falling-body velocity, free fall, Merton rule, science history 1973 May p 84-92	enectrophotometry, three-color receptor system
1975 Iviay p 34-32	1964 Dec p 48-56 [197]

ganglion reflexes, cell communication, central nervous system, nerve	charmonium, charmed quarks, high-energy physics, hadrons, leptons,
conduction, neuroreceptors, retina, nerve impulse,	quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct. p. 38-50
neurotransmitters, neural synapse, cytology, neuromuscular synapse,	Gauls in France, Celtic religion, Seine River source, shrine of Sequana 1971 July p. 65-73
how cells communicate 1961 Sept. p. 209–220 [98]	Gauss, mathematics history, number theory, Disquisitiones Arithmeticae
Ganymede, Galileo, Jupiter, Jovian satellites, solar system, Europa, Callisto, Io 1976 May p. 108-116	1977 July p. 122–131 [371]
gas, pipelines, fluid dynamics, oil, slurries, history and technology of pipelines 1967 Jan. p. 62-72	gears, bearing, friction, technology history, Leonardo, Codex Madrid I 1971 Feb. p. 100-110
gas chromatography, chemical separation, sensitivity and application	gegenschein, gas-tail hypothesis 1971 Aug. p. 47
1961 Oct. p. 58–67 [276]	Geiger counter, exoelectrons, metal fatigue, metal-surface defects, wear
fossil record, organic molecules, sedimentary rock, chlorophyll,	1977 Jan. p. 74–82 [350]
hydrocarbons, 'chemical fossils' 1967 Jan. p. 32–43 [308]	gemstones, diffraction, grain structure, opal colors, periodic structures,
high sensitivity 1958 Apr. p. 52	silica-sphere packing 1976 Apr. p. 84-95 gene action visualized, DNA transcription, electron microscopy,
bacterial 'signature' 1966 July p. 54 gas clouds, Doppler effect, hydroxyl radical, microwaves, galaxy, radio-	ribosome, mRNA 1973 Mar. p. 34-42 [1267]
absorption 1965 July p. 26–33	gene activation, actinomyosin, ecdysone, cortisone, insulin, estrogens,
gas compression, shock waves, shock tube, high temperature, plasma,	RNA synthesis, aldosterone, growth hormone, ACTH, thyroxin,
mechanically and electromagnetically driven shock waves	mechanism of hormone action 1965 June p. 36-45 [1013]
1963 Feb. p. 109–119	gene complement, hybrid cells, DNA, RNA, ribosomal RNA, gene
gas exchange, thorax, lung, pulmonary ventilation, breathing, alveoli,	transcription, density-gradient centrifugation, DNA-RNA
human physiology, vital capacity, mechanics and physiology of breathing, anatomy of lung 1966 Feb. p. 56-68 [1034]	hybridization experiments 1964 May p. 48-56 cell differentiation, nucleus transplantation, clone, genetic engineering.
breathing, anatomy of lung 1966 Feb. p. 56-68 [1034] lung, gill, oxygen transfer, carbon dioxide, water-breathing by	somatic cell nucleus, frog embryo, gene regulation
mammals, breathing, animal experiments in water-breathing	1968 Dec. p. 24–35 [1128]
1968 Aug. p. 66–74 [1123]	gene culture, polyoma virus, cell transformation, SV40 virus, viral DNA,
gas hydrates, clathrates, inclusion compounds, crystallography, inclusion	viral carcinogenesis 1967 Apr. p. 28–37 [1069]
compounds in biology and technology 1962 July p. 82-92 [280]	gene expression, neurospora, mutation, natural selection, Mendelian
gas injection, petroleum, water injection, secondary recovery	inheritance, genetic disease, tryptophan-niacin relation, one gene-
1965 July p. 34-42 gas kinetics, Monte Carlo method, computer modeling, mathematical	one enzyme hypothesis; selection for defect 1948 Sept. p. 30–39 [1] phenotype, genotype, mutation 1949 Oct. p. 46–49
model, chemistry by computer 1964 July p. 100–108	agammaglobulinemia, alkaptonuria, Wilson's disease, congenital
gas laser, Raman laser effect, solid-state lasers, diode junction laser, laser	anomalies, chemistry of hereditary disease, one gene-one enzyme
technology in rapid development 1963 July p. 34-45 [294]	hypothesis 1956 Dec. p. 126-136
carbon dioxide, laser, infrared radiation, nitrogen, physics of carbon	cancer, multipotential cells, tumor, teratoma, plant cell, inhibitions
dioxide laser 1968 Aug. p. 22–33	1965 Nov. p. 75–83 [1024]
Doppler effect, energy levels, laser spectroscopy, spectroscopy 1973 Dec. p. 69-85	phagocytosis, repressor molecules, operator-repressor system, lac repressor, lambda repressor, isolation of two gene repressors; how
gas molecules, molecular beam, electron theory, resonance absorption,	they work 1970 June p. 36–44 [1179]
atomic radiation, coherent radiation, nuclear magnetic resonance,	DNA operator, DNA repressor, gene regulation, host-restriction
Stern-Gerlach experiment 1965 May p. 58–74	endonuclease, operator-repressor system 1976 Jan. p. 64-76 [1333]
gas phase, superfluidity, helium 3, liquid phase, solid state physics,	genetic engineering, frog eggs, hemoglobin, mRNA, RNA molecule
quantum effects, quantum fluids, phase transitions 1976 Dec. p. 56-71	1976 Aug. p. 60–71 [1343] bacteriophage structure, latent viruses, provirus, virus action,
gas plasma, ball lightning, nuclear fusion, ionization, Kapitza theory, Hill	coexisting viruses, viral genes in host chromosome
theory 1963 Mar. p. 106–116	1976 Dec. p. 102–113 [1347]
gas separation, laser, laser-light pressure, radiation pressure, isotope	repressors isolated 1967 June p. 52
separation, 'optical bottle', atomic and molecular beams	bind to gene operators 1974 June p. 48
1972 Feb. p. 62-71 gas stream, fluidization, petroleum cracking, particle bed, turbulence,	gene fusion, large, two-function enzymes 1971 Jan. p. 46 gene isolation, DNA fractionation, ribosome, ribosomal RNA-coding
food processing 1968 July p. 94–104	genes 1973 Aug. p. 20–29 [1278]
gas turbine, aircraft propulsion, centrifugal compressor, axial-flow	comparative religion, ethnic groups, Israel, Judaism, Samaritans,
compressor, ducted fan, electric power generation	Holon and Nablus communities 1977 Jan. p. 100–108 [690]
1953 Nov. p. 65–72	isolation of single gene 1962 Apr. p. 77
energy transformation, energy demand, fuel-conversion efficiency, power, prime movers, steam turbines, magnetohydrodynamics,	lac operon 1970 Jan. p. 50 gene loci, fruit fly, genetics of behavior, insect behavior, genetic mosaic,
internal combustion engine, fuel cell, solar cells, power, nuclear	mutants 1973 Dec. p. 24–37 [1285]
power, comparative efficiencies of energy transformation pathways	gene manipulation, electrophoresis, sex determination, spermatozoon
in industrial civilization 1971 Sept. p. 148–160 [668]	motility, sorting out Y-bearing sperm by electrophoresis
coal gasification, pollution control, oil gasification, energy resources 1972 Oct. p. 26-35	1958 Nov. p. 87–94
single-crystal blades 1967 Feb. p. 58	resource management, grafting techniques, forestry, Southern pine, tree farming, seed-orchard concept 1971 Nov. p. 94-103
gas vacuoles, algae, algal bloom, blue-green bacteria, cyanobacteria	molecular cloning, plasmids, recombinant DNA, Asilomar conference,
1977 Aug. p. 90–97 [1367]	hazard evaluation 1975 July p. 24_33 [1224]
gasification processes, coal gasification, energy resources, Lurgi process,	agricultural resources, irrigation, photosynthesis, food and agriculture
Hygas process, synthane process, CO ₂ acceptor process, coal technology 1974 Mar. p. 19-25	gene spliging National Apademy 68:
gasoline from coal. Bureau of Mines pilot plant 1951 Jan. p. 28	gene splicing, National Academy of Sciences, recombinant DNA, science policy, N1H guidelines 1977 July p. 22–23 [1362]
gastrointestinal gas, bydrogen from colon 1969 Sept. p. 95	altering mutation rate
gastrula, cell differentiation, embryonic development, blastula.	gene mapping, DNA, chromosome, bacteriophage, mapping genes by
fertilization. ectoderm, mesoderm, endoderm, embryological 'organizer', science history, review of classical embryology	induced and spontaneous mutations 1962 Ian = 70 PA 1201
1957 Nov. n. 79–88 (103)	bacteriophage, amoer mutants, virus particles
gauge theory, particle interaction, high-energy physics, field theory,	protein structure, amino-acid sequence, gene-protein colinearity, DNA
"Cak Torce, electromagnetic force 'strong' force 1974 July n. 50-59	structure, mutation, base 1967 May p. 80-94 [1074]
*** of the control of	1507 May p. 80-94 [10/4]
force, neutral-weak-current interactions 1974 Dec. p. 108-119	

cell enliture, cell hybridization, cell differentiation, hybrid cells, Sendar	manufacture Acceptance
virus, mouse-rat, mouse-limin in livbrid cells in laboratory	gene transduction, bacteria bacteriophage, recombinant DNA, bacterial
1969 Apr p 26-35 [1137]	yene transdiction by pliage infection 1958 Nov. p. 38_43 (1961)
chromosome, genetic disease, autosomes, chromosomal anomilies	
1071 Apr n 104 117 (1220)	pneumococcus, recombinant DNA, biochemistry of Avery McLeod
1971 Apr p 104-113 [1220] cell hybridization, hybrid cells, monse-humin hybrid cells, somatic	and McCarty experiment 1956 Nov. p. 48-53 [18]
cells 1074 bit in 26, 44 (1200)	adenoviruses, eancer virus, SV40 virus DNA virus DNA
	recombination, tumor-virus antigen, virus etiology of cancer
gene mutation, cancer, evidence for genetic factor in laboratory animals	1966 Mar p 34-41
human at aluman manual and	pneumococcus, cell wall, recombinant DNA, transformation induced
human evolution, natural selection, mutation, eugenics, 'man's genetic	by factor synthesized by cell 1969 Jan p 38-44
future 1952 Feb p 68-74	bacterial transformation, Diplococcus pneumoniac, extra-cellular
chromosomal anomalies, lethal heredity 1952 July p 58-61	activator of transformation competence 1969 Dec p 38-44
'atoms for peace', radiation hazards, safety standards, Geneva' biology	cancer, SV40 virus, chromosome mapping, tissue culture, somatic cells
1955 Oct. p. 38–42	hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
erothrocyte, siekle eell disease, genetie disease, single pene-single	gene translocation, Down's syndrome, chromosomal anomalies
aminoacid deletion 1958 Jan p. 68-74	Klinefelter's syndrome, trisomy 21, genetic defect, meiosis mitosis
fruit fly, insect eye, paper chromatographs, fractionating the fruit fly	nondisjunction, afflictions associated with abnormal chromosome
1962 Apr. p 100-110 (1166)	complement 1961 No. p 66-76 [150]
DNA, phage X174, single-stranded DNA 1962 July p 109-116 f1281	general education. Intile of it 1954 Dec p 60
DNA, RNA-DNA 'reverse' transfer, cancer virus, DNA polymerase,	general practitioner, medical care, community hospital, medical center,
RNA-directed DNA polymerase 1972 Jan p 24-33 [1239]	medical specialist, laboratory services. Bingham plan, organization
antibiotic resistance, bacteria, infectious disease, dring resistance,	of medical technology 1948 Oct p 7-13
plasmids, Rh factor, bacterial conjugation	
1973 Apr p 18-27 [1269]	general relativity, astronomy, galaxies, red shift, galactic recession, universe expansion, science, stellar evolution, astronomy 1900-1950
albinism, Siamese eat, visual cortex, white mink, white tiger, cross-eyed	1950 Sept p 24-27
trait 1974 May p 44-54 [1294]	• •
air pollution, evolution, melanism, moths, population genetics,	curvature of space, Riemann non-Euclidian geometry 1954 Nov. p. 80-86
predation, evolution observed again 1975 Jan p 90-99 [1314]	
	artificial satellite, relativity theory, Mercury, stellar shift,
genetic variation, natural selection, polymorphism, mollusk shells,	electromagnetic frequency shift, penhelion shift, clock paradox
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1975 Aug p 50-60 [1326]	gravitational constant, science history, Eötvös experiment, Eotvos experiment confirmed 1961 Dec p 84-94
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1977 Nov p 100–107 [1370]	test for gravitational frequency shift now judged conclusive 1960 May p 88
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gene pool, porphyria, dermatology, pink tooth disease, tracking porphyria	radiation 1962 Mar p 72
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	generator control, automatic control, computer technology, electric power
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gene recombination, 1951 Cold Spring Harbor conference [951 Oct p 22-25]	curvature of space, red shift, galactic evolution, evolutionary
bacteria, sexual reproduction, conjugation, recombinant DNA,	universe, element formation 1954 Mar p 54-63
sexuality in bacteria 1956 July p 109–118 [50]	genetic adaptation, human evolution, natural selection, civilization,
sexuality in bacteria 1956 July p 109-118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms	culture human evolution in man-made environment
of heredity and infection in bacteria 1961 June p 92–107 [89]	1960 Sept p 206-217 [609]
gene regulation, DNA, chromosome puffs, insect chromosome, RNA	genetic code, DNA, double helix X-ray crystallography structure of
synthesis hormonal induction 1964 Apr p 30–38 [160]	DNA resolved 1954 Oct p 54-61 [3]
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comptic cell nucleus, gene complement, frog embryo	codon 1955 Oct p 70–78
[968 Dec p 24-33 [1126]	bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial
cell nucleus, chromatin, chromosomal proteins, DNA, histones,	DNA-RNA in vitro 1956 Mar p 42-46
1	DNA, RNA, chromosome, protein synthesis, polymers molecular
19/3 reb p 40-5/1 [5:51]	genetics as of mid-1957 1957 Sept p 188-200 [54]
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doggene hormones normonial action, protess systems	elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153]
	tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid
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virus 0×174, plus-and-initius included 1970 July p 49	nbosomes 1966 Apr p 102-109
gene synthesis, alanine transfer RNA gene	anuno acids, DNA, protein synthesis, mutation molecular biology.
gene transcription, mRNA, protein synthesis, the 1962 Feb p 41-49 [119]	triplets, RNA, anticodon ribosomes, triplets wobble hypothesis
gene to protein synthesis	1966 Oct p 55-62 [1052] cell communication, communication nerve impulse, hormonal action,
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1964 May p 48-56 tRNA, protein synthesis, molecular structure, 3-D structure of tRNA 1978 Jan p 52-62 [1377]

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DNA, poliomyelitis virus, protein synthesis	s, RNA, virus multiplication,	genetic load, evolution, gene pool, mutation, electroph	
virus structure	1975 May p 24-31		ar p 98–107 [1172]
recombinant DNA	1960 July p 82	genetic message transfer, DNA, mRNA, tRNA	1961 July p 66
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DNA codons universal	1963 Aug. p 49	Barr body, sex differences, chromosome, cytology, l	Klinefelter's
DNA, codon has three nucleotides	1964 Mar p 54 1964 July p 44	syndrome, Turner's syndrome, chromosomal ano	malies, sex
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GUU for value	1965 Aug p 43	fruit fly, gene loci, genetics of behavior, insect behavior	
nonsense-codon punctuation	1966 June p 56		Dec p 24-37 [1285]
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gene-protein relation uniformity	1967 Apr p 48	cat color	1974 Apr p 50
UGA means stop	1968 Apr p 44	genetic research, stable artificial mutants	1957 Feb p 67
genetic code confirmation, virus R17	1969 Nov p 58	genetic traits, currosity, rhesus monkeys, problem solv	
genetic convergence, continental drift, specia	ition, reptile evolution,	behavior	1954 Feb p 70-75
radiation, Gondwanaland, Laurasia, ma	ammalian evolution,	genetic transduction, carcinogenesis, polyoma virus, re	combinant DNA,
supercontinent breakup and animal div	ersification	virus disease, 'temperate' infection, viral induced	
	1969 Mar p 54-64 [877]		Nov p 63–71 [77]
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	1950 June p 16-19		pt p 112-127 [604]
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congenital anomalies, hemophilia, epiden	nology, mutation, in Queen	biological diversity, discontinuous variation	60 60 [123 <i>6</i>]
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hiker's' thumb	1953 Aug. p 76–81 [1062]	Lysenkoism, Lamarck, acquired characteristics, evo	lution, phenotype,
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	1976 Aug p 60-71 [1343]	Earth mantle, ocean floor, geology 1900-1950	1950 Sept n 26 20
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1955 Mar n 82-86 (80)	germanlum, solid state physics, transistor, vacuum tube, electronics,
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1959 Aug n 98-106 1846	germanium crystal, junction transistor, 'doping', triode
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1962 Oct p 38-47 1854	flowering, photoreceptive enzyme in plants 1960 Dec p 56-63
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1963 May p 84–96	aloge grant cells in study of nucleus-cytoplasm interaction
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entuation foundations of mathematics, Hans Haill on geometry and	1967 Oct p 62
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	by mammals, breathing animal experiments in water-breathing
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free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102–111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126–143 [397] ongin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44–52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30–40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62–66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88–96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86–93 [1228] grazing ecosystem, animal migration, grassland, grazing animals savanna topography, Serengeti National Park, Tanzania	developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photopenodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observator, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embry onic development, growth, computer modeling, the shaping of tissues in embryos 1978 June p 106–113 [1391] grief, adaptive value gross national product, education, U S population, labor force, age-sex distribution, demographics, U S census, more from the U S census
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free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102–111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126–143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44–52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30–40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62–66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88–96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86–93 [1228] grazing ecosystem, animal migration, grassland, grazing animals savanna topography, Serengeti National Park, Tanzania 1971 July p 86–93 [1228] Great Lakes, lamprey, Jawless fish pest control, trout, whitefish	developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photopenodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embry onic development, growth, computer modeling, the shaping of tissues in embryos 1978 June p 106–113 [1391] grief, adaptive value 1969 Apr p 52 gross national product, education, U S population, labor force, age-sex distribution, demographics, U S census, more from the U S census of 1960 gross reproduction rate, demographic transition propulation serves.
free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102–111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126–143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44–52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30–40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62–66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88–96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86–93 [1228] grazing ecosystem, animal migration, grassland, grazing animals savanna topography, Serengeti National Park, Tanzania 1971 July p 86–93 [1228] Great Lakes, lamprey, Jawless fish pest control, trout, whitefish 1955 Apr p 36–41 cutrophication, water pollution, fisheries, fish population, runoff, silt,	developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photopenodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embryonic development, growth, computer modeling, the shaping of tissues in embryos 1978 June p 106–113 [1391] grief, adaptive value 1969 Apr p 52 gross national product, education, U S population, labor force, age-sex distribution, demographics, U S census, more from the U S census of 1960 1960 1962 Oct p 30–37 gross reproduction rate, demographic transition population growth, world population, zero population growth birth rate and
free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102–111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126–143 [397] ongin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44–52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30–40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62–66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88–96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86–93 [1228] grazing ecosystem, animal migration, grassland, grazing animals savanna topography, Serengeti National Park, Tanzania 1971 July p 86–93 [1228] Great Lakes, lamprey, Jawless fish pest control, trout, whitefish	developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photopenodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embry onic development, growth, computer modeling, the shaping of tissues in embryos 1978 June p 106–113 [1391] grief, adaptive value 1969 Apr p 52 gross national product, education, U S population, labor force, age-sex distribution, demographics, U S census, more from the U S census of 1960 gross reproduction rate, demographic transition propulation serves.

elaboration of colonial languages

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goblet cells, glycoprotein synthesis, Golycapparatus, mucus,
                                                                                      trutli, lugic, philosophy, sentence, metalogic, mathematical proof,
      catholisdrate, sucules
                                                 1969 Leb r 100-107 111341
                                                                                        antimony of the liar, proof and truth
 golter, thyroid, metabolism control, thyroxin, pituitary gland, role of
                                                                                      language organization, linguistics speech errors, spoonensms, syntactic
      thyroid in governing metabolism
                                                       1960 Mar p 119-129
                                                                                        rules
    hypothyroidism, todine deficiency, epidemiology, thyroid, iodized salt
                                                                                                                                  1973 Dec p 110-117 15561
                                                                                   grammatical relations, visual perception, bilingualism, dyslexia, eye
                                                 1971 June p 92-101 [1223]
                                                                                        movement, language, reading, perception of words
 gold, metallurgy, New World archeology, New World archeology, Old
      Copper culture, Peru, copper, lost-wax casting, metalwork, pre-
                                                                                                                                    1972 July p 84-91 [545]
                                                                                   grana, photosynthesis, chloroplast, Hill reaction
       Columbian, New World, 4,000 B C
                                                                                                                                        1953 Nov p 80-84
                                                         1966 Apr p 72-81
                                                                                   granite, sandstone, sand dune, weathering, turbidity currents,
 goldfish, brain metabolism, memory, protein synthesis, learning
                                                                                        stratigraphy, sand origin and history from shape of grain
      conditioned behavior
                                                1967 June n 115-122 [1077]
                                                                                                                                       1960 Apr p 94-110
 Golgi apparatus, glycoprotein synthesis, goblet cells, mucus,
                                                                                  granitization. Earth crust, mountain formation, isostasis, ocean basins
      carbolivarate, saccules
                                                1969 Yeb n 100-107 [1134]
                                                                                       ocean floor, tectonic processes, comprehensive review of
 gonadal hormones, adrenal hormones, brain circuitry, hormone-sensitive
                                                                                       understanding (before acceptance of continental dolt)
      neurons, sex hormones, sexual behavior, sex differences, steroid
                                                                                                                                        1950 May p 32-41
      hormones, action of hormones on nerve tissue
                                                                                     Earth mantle
                                                                                                                                        1955 Apr p 77-82
                                                   1976 July p 48-58 [134]]
                                                                                  grape fermentation, wine, yeast, viticulture, climate, enzymes, chemical
 gonadotrophie harmanes, pituitary gland, ACTH, nictabolie hormones.
                                                                                       explanation of a good wine, role of climate
      growth hormone, endocrine system, the master gland
                                                                                                                                  1964 Aug p 46-56 [190]
                                                         1950 Oct p 18-22
                                                                                  graph theory, network analysis, nodes and branches, pipelines,
 Gondwanaland, continental drift, glaciation, Lauravia, paleomagnetism,
                                                                                                                                       1970 July p 94-103
                                                                                       powergrids, reliability analysis
      Glossopteris, sea-floor spreading, supercontinents, plate tectonics,
                                                                                  graphite-crystal structure, crystal growth, diamond-crystal structure,
      continental drift confirmed
                                                   1968 Apr p 52-64 [874]
                                                                                      synthetic diamonds, synthesis at low pressure 1975 Nov p 102-109
   continental drift, speciation, reptile evolution radiation, genetic
                                                                                  grasses, agricultural economics, forage crops, agronomy, hay, legumes
      convergence, Laurasia, mammilian evolution, supercontinent
                                                                                      In estock feed, ruminants, silage, Rhizobium bacteria
      breakup and animal diversification
                                                   1969 Mar p 54-64 [877]
                                                                                                                                       1976 Feb p 60-75
   mountain formation continental drift, Himalaya formation, Indian-
                                                                                 grassliopper, nerve conduction, muscle contraction, biomechanics of leap
      Ocean formation, magnetization patterns, plate tectomes, sea-floor
                                                                                                                                       1958 Jan p 30-35
      spreading
                                                   1973 May p 62-72 [908]
                                                                                 grassland, ecology, fire, forestry, forest fire, role of fire in clunax ecology
   hypothesis confirmed
                                                                                                                              1961 Apr p 150-160 [1099]
                                                            1967 Teb p 58
 gong language, African drum language, communication, drums, talking
                                                                                    animal migration, grazing animals, grazing ecosystem, savanna
                                                        1971 Dec p 90-94
     drums
                                                                                      topography, Serengett National Park, Tanzania
gonorthea, resurgent
                                                                                                                                1971 July p 86-93 [1228]
                                                            1976 June p 50
 Gordion, archeological excavation, Phrygian civilization, Alexander, 700
                                                                                 gravimetry, bathymetry, sonar, ocean floor, continental shelf,
      BC, preclassical Greek link with East
                                                                                      sedimentary cores, Lamont Geophyscial Observatory
                                                      1959 July p 100-109
                                                                                                                                      1956 Dec p 83-94
 gorilla autopsy, poor zoo diet
                                                            1955 Dec p 56
                                                                                 gravitation, matter, wave-particle duality, energy levels, electromagnetic
 Gossamer Condor, aeronautics, man-powered flight
                                                            1977 Oct p 74
                                                                                     force, nuclear forces, field theory, fundamental research, quantum
Gothic arch, architectural engineering, roof, vault, Romanesque barrel
     vault, Byzantine dome, building construction, vaulting technics
                                                                                     jumps, corpuscular streams, what is matter?
                                                                                                                               1953 Sept p 52-57 [241]
                                                     1961 Nov p 144-154
Gothle cathedrals, optical model, architectural engineering, Bourges
                                                                                   galactic clusters, probability, universe, cosmology, Monte Carlo
                                                                                     method, distribution of galaxies as test of cosmologies
                                                       1972 Nov p 90-99
     cathedral. Chartres cathedral
                                                                                                                                  1956 Sept p 187-200
gout, arthritis, colchicine, metabolism, chemistry of gout
                                                                                  wave-particle duality, relativity theory, quantum mechanics, space time
                                                        1958 June p 73-81
                                                                                     continuum, uncertainty principle, PAM Dirac view of physics
   chemistry of gout
                                                           1958 Aug p 50
                                                                                                                                     1963 May p 45-53
government-business relations, economic development, Japan,
                                                                                                                                        1959 Apr p 68
                                                                                  gravity waves and quanta
     employment policy, investment, debt financing Japan's economic
                                                                                gravitation anomalies, geoid, Earth, Vening-Meinesz apparatus, Earth's
                                                       1970 Mar p 31-37
     growth
                                                                                                                                 1955 Sept p 164 [812]
                                                           1948 Oct p 24
                                                                                    gravity
government employment, scientists reject
                                                                                gravitation effects, stellar evolution, tidal effects, contact binaries, binary
government regulation, housing, land use, population density,
                                                                                                                                    1968 June p 34-40
     shantytowns, taxation, urban planning, cities, control of land use
                                                                                    stars stellar fission
                                                                               gravitational acceleration, Galileo's experiments, time-keeping, music as
                                                    1965 Sept p 150-160
                                                                                                                                   1975 June p 98-104
                                                           1975 Oct p 54
graffiti, prevention
                                                                               gravitational collapse, solar system, Sun, cosmology, dust cloud
graft rejection, skin transplants, immune response, biochemistry of 'self'
                                                                                    hypothesis, gravity, light pressure, thermonuclear reaction, genesis of
                                                       1957 Apr p 62-66
                                                                                                                                   1948 May p 35-45
   antigens, cell-surface antigens, histocompatability, immune response,
                                                                                    solar system
                                                                                 dust cloud hypothesis, binary stars, photophoresis, element abundance
                                               1977 Oct p 96-107 [1369]
     H-2 antigens, HLA antigens
                                                                                                                              1952 Oct p 53-61 [833]
                                                          1965 Dec p 40
                                                                                   angular momentum origin of the Earth
  thymectomy
                                                                                 galactic evolution, barred galaxy, spiral galaxies, elliptical galaxies,
grafting techniques, resource management, gene manipulation forestry,
                                                                                                                                1956 Sept p 100-108
                                                                                   evolution from taxonomy
     Southern pine, tree farming, seed-orchard concept
                                                                                 dwarf stars, degenerate gas, white dwarfs, binary stars, 'dying' stars
                                                     1971 Nov p 94-103
                                                                                                                                   1959 Jan p 46-53
grain, proteins, plant protein, plant hybrids, agronomy, Triticale
                                                                                                                . - supernovae, synchrotron
                                                      1974 Aug p 72-80
grain boundaries, alloys, materials technology, metals, crystal structure,
                                                                                                                  10 emission
                                                                                                                             1962 Mar p 41-49 [278]
     lattice defects, dislocations, electron 'gas', nature of metals
                                                                                gravity, stellar evolution space-time continuum, thermal pressure,
                                                    1967 Sept p 90-100
                                                                                                                                  1967 Nov p 88-98
                                                                                  singularity, gravitational radius, black hole
grain combine, mechanical harvesting, cotton picker, agricultural
                                                                                pulsar, white dwarfs, neutron stars, angular momentum, 'lighthouse'
     technology, tomato harvester, hay cuber, cherry picker
                                                                                                                                  1968 Oct p 25-35
                                                      1967 Aug p 50-59
                                                                                  model proposed
grain structure, wood, cellulose, lignin, cell structure 1953 Jan p 64-67
                                                                                Crab Nebula, neutron stars pulsar, radio source, stellar evolution,
                                                                                                                                  1971 Jan p 48-60
  materials technology, metalliding, superplasticity, microduplex
                                                                                  angular momentum
                                                                                neutron stars, pulsar, stellar evolution, solid stars, white dwarfs
     structure, thermomechanical processing, metals that can be formed
                                                                                                                                 1971 Feb p 24-31
                                                                                  ultradense matter
                                                     1969 Mar p 28-35
                                                                               interstellar matter, supernovae, shock waves, stellar formation, stellar
  diffraction, gemstones, opal colors, periodic structures, silica-sphere
                                                                                  evolution, birth of massive stars
                                                                                                                        1978 Apr p 110~118 [3005]
                                                     1976 Apr p 84-95
                                                                             gravitational constant, science history, Ectvos experiment, general
grammar, pidgin, linguistics, Creole, gullah, colonialism, evolution and
                                                                                                                                1961 Dec p 84-94
                                                                                 relativity. Ectvos experiment confirmed
                                                   1959 Feb p 124-134
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ammonia manufacture, biological nitrogen fixation, metallo-organic	hamster, tissue grafts, immune reaction, tolerance of grafts 1963 Jan p 118-127 [148]
algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic	hand, toolmakers, human evolution, hominid, evolution of the human hand 1962 Dec p 56-62 [140]
engineering, rhizobium, legumes, symbiosis, mitrogenase, biological mitrogen fixation 1977 Mar p 68-81	hand axes, human evolution, Olduvai Gorge, toolmakers, man-apes,
habit reversal, evolution, intelligence, probability learning, intelligence	stone tools 1954 Jan p 66–71
compared in five animals 1965 Jan p 92–100 [490]	handedness, symmetry, natural and conventional 1948 Oct p 46-49 auditory perception, brain hemispheres, cerebral dominance, musical
habitat selection, anımal behavior, ecological adaptation, heredity, learning, field experiments with mice 1964 Oct p 109-116 [195]	illusions, hearing, illusions, perception, two-tone illusion
haboob, sand dune classification, dust storms, soil erosion	1975 Oct p 92–104 [566]
1976 Oct p 108–114 sandstorms haboobs in U.S. 1973 Jan p 46	Harappan civilization, Mohenjo-Daro, Indus valley, archeology, Sumer 1953 Nov p 42-48
sandstorms, haboobs in U S Hacilar culture, Neolithic archeology, Turkey, 7000 B C	archeology, Indus valley, Mohenjo-Daro, floods as cause of demise
1961 Aug p 86–97	1966 May p 92–100
Hadrian's Wall, Britain, frontier life, Roman Britain, Vindolanda site 1977 Feb p 39-46 [692]	pre-Dravidian script deciphered 1969 Nov p 62 hardness, comindum, crystal structure, cubic boron nitride, diamond,
hadron, neutron diffraction, the neutron as nuclear particle and	materials technology, Mohs scale 1974 Aug p 62-70
as tool of physics 1951 Oct p 44-53	Harijans, class discrimination, untouchables, caste, Hinduism, India, civil
hadron jets, quark hypothesis supported 1976 Apr p 55	nghts 1965 Dec p 13-17 harmonic functions, Brownian motion, probabilistic potential theory,
hadrons, high-energy photons, 'strong' force, photons as hadrons 1971 July p 94-104	potential theory 1969 Mar p 66–74
beta decay, bubble chamber experiments, high-energy physics, neutrino	harmonic oscillation, bridges, suspension bridges, aerodynamics
beam, particle accelerator, positron 1973 Aug p 30–38	1954 Nov p 60-71 harmonic proportions, musical scale, tone ladder, Pythagorean doctrine,
dual-resonance model, high-energy physics, light-string theory, quark, strong interactions 1975 Feb p 61-67	music and mathematics, Kepler, vibrating string
charmonium, charmed quarks, high-energy physics, gauge theory,	1967 Dec p 92–103
leptons, quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct p 38-50	harmonics, musical instruments, music, piano, harpsichord, physics of the piano 1965 Dec p 88–99
heavy leptons, J particle, high-energy physics, quantum mechanics,	harmony, physics, string instruments, wind instruments, piano, voice,
guark hypothesis, intermediate vector bosons 1976 Jan p 44-54	musical scale, acoustics, agreeable melodies and physical laws
baryons, high-energy physics, leptons, mesons, quantum numbers, quark confinement, bag model, infrared-slavery model, string model	1948 July p 32-41 harpoon, cultural anthropology, Mesolithic era, Ishango man, African
1976 Nov p 48–60	culture 10,000 B C 1962 June p 105-116
charmed quarks, high-energy physics, quantum mechanics, quark,	harpsichord, musical instruments, music, piano, harmonics, physics of the
charm 1977 Oct p 56-70 [388] hagfish, cardiac function, comparative psychology, cyclosomes, knot-	piano 1965 Dec p 88–99 Harriot, 'English Galileo' 1975 June p 49
tying fish, hermaphrodite 1966 Feb p 82–90 [1035]	harrestman, Phalangida, daddy longlegs, Arachnida, animal behavior,
hahnium, element 105 synthesized 1970 June p 48	natural history 1962 Oct p 119–128 [137]
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bacteria, ectoparasites, skin, fungi, lice, human skin ecosystem 1969 Jan p 108-115 [1132]	binary search trees 1977 Apr p 63-80 Hauksbee, electric power, light, science history, life and work of Francis
Hale telescope, Palomar Observatory, Schmidt telescope, galactic survey,	Hauksbee 1953 Aug p 64-69
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Palomar Observatory, cosmology, red shift, stellar populations,	the Grand Canyon 1958 Feb p 97–102 hay, agricultural economics, forage crops, grasses, agronomy, legumes,
interstellar matter, galactic evolution, first yield from 200 inch	livestock feed, ruminants, silage, Rhizobium bacteria
telescope 1952 Feb p 43–51	1976 Feb p 60–75
Hales, plants, root pressure, sap circulation, shoot tension, science history, Stephen Hales, founder of biophysics 1952 Oct p 78–82	hay cuber, mechanical harvesting, cotton picker, agricultural technology, tomato harvester, cherry picker, grain combine 1967 Aug. p 50-59
Hall effect, Etungshausen effect, Nernst effect, Right-Leduc effect,	health, human nutrition, poverty, hunger, population growth, developing
galvanomagnetism, thermomagnetism, science history, industrial technology, technological applications of 19th c discoveries	countries, world poverty 1968 Nov p 27–35 health care, see medical care
1961 Dec p 124–136	health economics, see medical economics
Halley's comet, comet, solar radiation, physics of comet tails 1958 Oct p 44-50	health in Liberia, DDT reduces malaria incidence 1948 Dec p 27
Halloween, Druid holiday, anthropology 1951 Oct p 62-66	health insurance, medical specialization, medical economics, medical care, need for organization of medical technology in U S
hallucination, electroencephalography, perceptual isolation, boredom,	1963 Aug n 19-27
neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52-56 [430]	public health, morbidity, medical care, health statistics, mortality rates, US National Health Survey 1966 June p. 21-29
central nervous system, drug induced imagery, perceptual illusions,	medical care, medicine, physical incapacitation, morbidity, mortality
perceptual-release theory 1977 Oct p 132–140 [579] hallucinogenics, LSD adverse effects 1966 Feb p 54	rates, hospital care, ambulatory care, triage, introduction to single-
hallucinogens, alkaloids, mental health, drug addiction, consciousness	topic issue on medical care 1973 Sept p 22-33 medical economics, hospital care, medical care, third-party payment
alteration, LSD, psychosis, psilocybin, mescaline, effects of LSD	1973 Sent n 151–159
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loving bacteria 1976 June p 38-46 [1340]	health statistics, public health, morbidity, medical care, mortality rates
halos, Sun dogs, ice crystals, opiics, atmospheric halos 1978 Apr p 144–152 [3006]	nealth insurance, U.S. National Health Survey 1966 June p. 21-20
Hamilton, quaternions, complex numbers, non-commutative algebra.	medical care, medical-cost control, national health insurance, 'uncontrollable' expenditures US Federal expenditure on medical
mathematics, high-energy physics, life and work of William Rowan Hamilton 1954 May p 82-87	1971 Apr p. 17-26
Hammurabi, Sumer, law code, Lipit Ishtar, cuneiform script, earliest law	hearing, dealness, ear, directional orientation, cochlea
code 1865 B C 1948 June p 44-47	1957 Aug. p 66-78 [44] vision, sensory organs, ommatidia neuroreceptor cells cytology, taste
	buds, how cells receive stimuli 1961 Sept. p 222–238 [99]
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ground motinn, earthquake dynamics, earthquake prediction, seismic
waves, strong-motion scisinglogs 1977 the mag to to to
ground squirrels, behavioral adaptation, Mojave desert, annual behavior, kidney function, thermoregulation, desert adaptation, desert
mammals diaptations to light and aridus 1964 Nov. n. 107, 116
ground water, artesian well, pic/ometric surface water table water table
resource management, runoff, ground water in water-resource
managenient 1950 Nns. n. 14_10 19191
irrigation, artesian well, agricultural technology. Saliara desert, water
resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29
water, making desert fertile 1966 May p 21-29 irrigation, tunneling, aqueducts, Iran, underground system, 3,00 years
010, Still in tise 1066 Apr n 0.1-106
atmospheric circulation, hydrology, water cycle, 'nerological
accelerator 1973 Apr p 46-61 [907] center-pivot irrigation, irrigation agricultural technology
1976 June p. 90-99
reservoir recharging, water resource management, water cycle
1977 May p. 21-27 [924]
group behavior, interpersonal relationships, social psychologs, conference
1955 Mar p 31-35 aggression, pecking order, social psychology, experiments in group
behavior 1956 Nov p 54-58 [154]
social psychology, conformity, human subjects, grnup pressure.
experiments in susceptibility to group pressure 1961 Dec. p. 45-51
erowding, rats, population density, comparative psychology, social pathology of crowding 1962 Feb p 139-148 [506]
pathology of crowding 1962 Fcb p 139-148 [506] education, poverty, rural poverty, community action emotional illness.
social psychology, study of community regeneration
1965 May p. 21–27 [634]
poverty, community action, culture of poverty, subculture of Western market societies 1966 Oct. p. 19-25 [63]]
market societies 1966 Oct p 19-25 [631] social discrimination, discrimination, child development, 'in vs out'
group discrimination 1970 Nov p 96-102 [530]
humor's function 1967 Sept p 106
group identity, black power, American Negro, racial discrimination, economic power, ethnic groups, slavery, social deprivation
1967 Apr p 21–27 [633]
group practice, national health insurance, medical care
1949 June p 11–15
group pressure, group beliavior, social psychology, conformity, human subjects, experiments in susceptibility to group pressure
1961 Dec p 45-51
group psychotherapy, psychiatry, emotional illness
1950 Dec p 42–45 [449] for schizophrenics 1962 Mar p 42
group theory, high-energy physics, resonance 'particles', Regge poles,
temporary associations of particles 1963 Jan p 38-47 [290]
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1971 Mar p 34-42 [534]
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ACTH, hormone, sexual characteristics, thyroid-stimulating hormone,
follicle-sumulating hormone, prolactin, androgens, estrogens,
secondary sexual characteristics, human physiology, endocrine system, chemical integrators of the body 1957 Mar p 76-88 [1122]
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-t-ld-on in industrial countries 1908 Jan p 21-27
embryonic development, computer modeling, grid-transformation, the
shaping of tissues in charge of ACTH, gonadotrophic hormones,
matcholic hormones endocrine system, the master giante
1930 Oct p 10 22
actinomyosin, ecdysone, cortisone, insulin, estrogens, gene activation, RNA synthesis, aldosterone, ACTH, thyroxin, mechanism of 1965 June p. 36-45 [1013]
CTU shild development dwarfism, emotional deprivation,
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grawth inhibitars, plant communities, plant hormones, plant chemicals antagonistic to nther plants 1949 Mar p 48-51 growth rate, child development, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [1063] growth regulation, Hydra, sexual reproduction, asexual reproduction, cell differentiation, carbon dioxide as 'sex gas' 1959 Apr p 145-156 guacharus, snnar, bird navigation, 'oil birds' 1954 Mar p 78-83 guann, Peru Current, anchovy, scagulls, El Niño, upwelling 1954 Mar p 66-71 Guatemala, anthropology, central-place theory, market networks People's Republic of China, rural markets 1975 May p 66-79 guillenint, evolution, speciation, skua, melanism, ornithology, avian evolution 1957 May p 124-134 guilt, anxiety, polygraph, lying, psychosomatic illness, breathing, pulse rate, skin temperature, 'lie detector' mis-named 1967 Jan p 25-31 [503] Gulf of Aden, Afar triangle, Red Sea, Rift Valley, guyot, sea floor spreading, continental drift, sea-floor spreading opens new ocean 1970 Feb p 32-40 [891] Gulf Stream, Atlantic Occan, occan circulation, salinity, oxygen level, occan temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan p 30-35 [810] cold-core rings 1976 Aug p 44B gullah, pidgin, linguistics, Creole, colonialism, grammar, evolution and 1959 Feb p 124-134 claboration of colonial languages gulls, courtship display, animal behavior, releaser stimulus, displacement 1954 Nov p 42-46 activity, ethology ethology, social behavior, comparative psychology, animal behavior evolution, reconstructing gull family tree from behavior of species 1960 Dec. p 118-130 [456] animal beliavior, speciation, evolution, sexual behavior, innate behavior, ethology, species discrimination, Larus, eye rings 1967 Oct p 94-102 [1084] Guni Nebula, ionized-hydrogen cloud, Milky Way, Strömgren sphere 1971 Dec p 20-29 galaxy structure, interstellar matter, Milky Way, stellar formation, supernovae, galactic dust clouds, nebulae, Bok globules 1972 Aug p 48-61 Gunslint cherts, bacteria, blue-green algae, fossil cells, evolution, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] Gunn effect, electric field, microwave emission, negative resistance, solid state physics, electronics, gallium arsenide, solid state microwave 1966 Aug p 22-31 generation gunshot wounds, surgery, medical history, assasination of US President 1963 Mar p 118-120 McKinley gurot, Afar triangle, Red Sea, Rift Valley, Gulf of Aden, sea floor spreading, continental drift, sea-floor spreading opens new ocean 1970 Feb p 32-40 [891] gy nandromorphism, chromosomal anomalies, geneuc mosaic, chimera, 1960 May p 118-130 organisms with tissue cells of different genes gypsum, mining Amerindian, New World archeology, prehistoric manin 1960 July p 130-140 Mammoth cave gypsy moth, biological pest control, pheromones, olfactory receptors, sex attractants, silk moth, chemotaxis, communication 1974 July p 28-35 [1299] gyres, Earth, ocean circulation wind, upwelling, the circulation of the 1955 Sept p 96-104 gyroscope, accelerometer, aircraft navigation, navigation, air transport, inertial navigation, commercial adaptation of military and space 1970 Mar p 80-86 technology

H-R diagram: Hertzsprung-Russell diagram H-R diagram, globular cluster stars, dwarf stars, spectroscopy, siellar evolution, subdwarf stars bluer because poorer in heavy elements 1961 June p 111-120 globular cluster stars, stellar evolution, Red Giant stars, stellar modeling main-sequence stars, stellar anatomy, age of cluster stars 1970 July p 26-39 Haber process, bacteria, nitrogen cycle, nitrogen fixation, blue-green algae, biosphere, nitrate, legumes, eutrophication 1970 Sept p 136-146 [1194]

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pharmacology, drug action, Wilson's disease, metal poisoning, bone	test 1955 Mar. p 60–70
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exploitation of chelates 1966 May p 40–50	hematology, comparative physiology, erythrocyte, structure of red blood
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shell model, fission fragments 1965 Aug p 49-59 heavy oil, deposits in U S 1974 July p 47	'hemlock', alkaloids, plant physiology, morphine, strychnine,
heavy water, U.S sales abroad 1956 May p 55	physostigmine, caffeine, contine, quinine, cocaine, ricinine, LSD,
heavy-water reactor, nuclear power, fission reactor, homogeneous reactor,	human toxins in plant physiology 1959 July p 113-121 [1087]
enriched uranium, A E.C program 1951 Apr p 43–50	hemochromatosis, chelation, lead poisoning, pharmacology, drug action,
CANDU reactor, nuclear power, natural reactor, fission reactor,	Wilson's disease, metal poisoning, heavy metal poisoning, bone
CANDU system 1975 Oct p 17–27	cancer, salicylates, aspinn, cancer therapy, chemotherapy, medical
Hebrew civilization, Mycenaean civilization, Linear A script, Linear B	exploitation of chelates 1966 May p 40–50 hemocyanin, hemoglobin, chlorocruorin, blood pigments
script, Minoan civilization, Crete, Semites, common origin of Greek and Hebrey civilizations 1965 Feb p 102–111	1950 Mar p 20–22
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HeLa cancer cells, clone, cell culture, somatic cells, tissue culture, single	cytochrome oxidase, copper biochemistry, Wilson's disease,
human cells 1957 Aug p 91–100 [33]	tyrosinase 1968 May p 102-114
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1955 Mar p 36–43	1950 Mar p 20–22
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1955 Jan p 36–40	1951 Aug p 56–59
aeronautics, aircraft design, helicopter flight, history, future development 1967 Apr p 38-46	chlorophyll, tetrapyrrole ring, cytochrome, respiration, enzymes, tetrapyrrole virtuosity 1958 Aug p 77–81
development 1967 Apr p 38-46 heliocentric theory, calendar, solar system, planetary motion, time, year,	allosteric enzymes, myoglobin, X-ray diffraction, amino-acid sequence,
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superconductivity 1949 June p 30–39 [206]	cooperative enzymes, allosteric enzymes, control of biochemical
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crystal structure, solid state physics, zero-point motion, quantum solid, solid helium, physical and theoretical properties 1967 Aug p 84-95	physiology 1965 May p 88-96 [1011] evolution, myoglobin, molecular evolution, amino acids, evolutionary
heat, diffusion, solid state physics, thermal waves, second sound,	distance measured by amino-acid substitution
cryogenics, wave propagation, phonon, thermal waves in solid	1965 May p 110-118 [1012]
helium 1970 May p 92–101	comparative physiology, ice fish, oxygen, blood, Antarctic fish without
from natural gas 1958 July p 52	red cells or hemoglobin 1965 Nov p 108-114
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1958 June p 30–35 [224]	brown fat, altitude adaptation, Quechua Indians, acclimatization, deer
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temperature physics, liquid helium properties	1970 Feb p 52–62 [1168]
1958 June p 30-35 [224] helium 3/helium 4 dilution, cryogenics, supercooling, nuclear cooling,	'anomalous' water, 'biological' water, blood, water, membrane
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1969 Dec p 26–35	chemotherapy, cyanate, genetic disease, anemia, erythrocyte, sickle cell
helium 3, superfluidity, liquid phase gas phase, solid state physics,	disease 1975 Apr p 44-50 [1319]
quantum effects, quantum fluids, phase transitions	genetic engineering, frog eggs, gene expression, mRNA, RNA molecule
1976 Dec p 56–71	extracellular hemoglobin synthesis 1976 Aug p 60–71 [1343]
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radiation, 'big bang' theory, low-energy radiowaves, isotropy,	alpha and beta chain 1959 July p 63 hemoglobin S, anemia, sickle cell disease, human evolution, malaria
primeval fireball, 'big bang' theory and cosmic background radiation	hematology, adaptive benefits of sickle-cell anemia
1967 June p 28–37	1956 Aug p 87–94 [1065]
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1954 Nov p 36–41	diagnosis, Down's syndrome, Tay-Sachs disease, chromosomal
helium reaction, heat, thermonuclear reaction, stellar interiors, hydrogen	anomalies 1971 Nov. p. 34_42 [1234]
bomb, solar corona, proton-proton interaction, ultrahigh	hemostasis, platelets, hemagglutination, blood clotting, role of platelets in
temperatures 1954 Sept p 144-154 helium-selenium laser, energy levels, helium-cadmium laser, laser, metal-	clotting mechanism 1961 Feb p 58-64
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Hellenic art, Greek civilization, Macedonia, Pella, mosaic, capital of	Stonehenge 1970 Nov p 30-38 Henry, electrical induction, science history, radiowave, life and work of
Macedonia 1966 Dec. p. 98-105	Joseph Henry 1954 July p. 72-77
Helmhelm reconstant and the He	nepartis, cancer, enzyme blood levels, my ocardial infarction, cancer
Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz,	diagnosis, leukemia, medical diagnosis, diagnosis by presence of
biography 1958 Mar p 94-102	abnormal enzymes 1961 Aug p 99–107 Australia antigen 1970 Aug p 48
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platelets, hemostasts, blood clotting, role of platelets in clotting	Australian antigen (B), viral structure, viral disease
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1962 Apr n 143_1511	high temperatures chemistry 1954 Sept p 109-119 propulsion, energy transformation, acrothermodynamics laminar flow
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1967 Mar p 32-37 [106	heat crop, stem-inst periods, what causes heat death?
heart disease, Aschoff bodies, rheumatie fever, streptococcus, infection,	1954 Apr p 70-75
immune response, hypersensitivity 1965 Dec p 66-	heat emission, air pollution, cities climate, heat pollution, microclimate,
heart embryology, embryonic development, mesoderm, first heartbeat	infrared photography, heat island, climate of cities
1959 Mar p 87-96 [5] heart infarct, cardiae arrhythmia, intensive care, coronary care unit,	6) 1967 Aug p 15–23 [1215]
fibrillation, coronary occlusion, electrocardiography, nerve	heat engines. Philips air engine, external combustion engines, Stirling engine, hot-air engine 1948 July p 52-55
conduction 1968 July p 19-2	heat exchange, cooling towers, industrial cooling, energy technology,
heart-lung machine, dialysis, kidney machine, surgery	microchmate 1971 May p 70–78
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cardiac prostheses, cardiae surgery, Fallot tetralogy, patent ductus	physiology, tuna, warm bodied fishes 1973 Feb p 36-44 [1266]
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heart metabolism, cardiology, Starling, 'Law of the Heart', venous	0 radioactivity 1950 Dec p 54-51 Earth heat, Earth core, plate tectonics 1977 Aug p 60-76 [927]
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of heart sounds heart surgery, arteriography, atherosclerosis, coronary bypass, coronary	host reflection, construction technology from a roof paint
occlusion 1968 Oct p 36-43	1954 June p 46
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heart transplant, artificial heart, kidney transplant, immunosupression,	1967 Sept p 112-124
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persistance of donor and donee rhythms 1970 Oct p 60	temperature-resistant plastics 1969 July p 90-103
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1 an anterescenti	heavy hydrogen, 'big bang' theory, deutenum-hydrogen ratio deutenum
a turn burner analytical fire vegetation, cooking recomme	synthesis cosmology interstellar matter 1974 May p 108-118
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	6 Aug p 29–35	omega meson found	1961 Nov p 79
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synchrotron, design and purposes of big accelerators	r p 64–76 [251]	nine more particles	1964 July p 44
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	n p 38–47 [290]	J and psi particles	1975 May p 43
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particle physics 19	63 Oct p 36-45	boson, fermion, guage theory	1977 Mar p 61
baryons, mesons, 'strong' force, 'eightfold way', conser		high-energy radiation, origins of life, Miller-Urey ex	xperiment,
Regge trajectory, resonance 'particles', 'bootstrap' h	vnothesis	heterotrophs, fermentation, photosynthesis, au	
1964 Fe	b p 74–93 [296]		954 Aug p 44-53 [47]
alternating-gradient synchrotron, 'eightfold way', ome		mutation, radiation damage, nuclear medicine, X	
particle, bubble chamber, particle accelerator, US	Brookhaven		0 Apr p 142-153 [71]
National Laboratory experiment	064 Oct p 36-45	high-flux isotope reactor, 'synthetic' elements, elem	
proton spin, spin, 'strong' force, electron scattering, de		transuranium elements, heavy ion linear accele	
nuclear forces on spin	966 July p 68-78	at 103	1963 Apr p 68-78
storage rings, synchrotron, particle accelerator, colliding		high-gradient magnetic separation, kaolin purificati	
accelerator, spark chamber 1966 Nov	p 107-116 [323]	separation, separation techniques, wastewater	purification
antimatter, Leidenfrost phenomenon, Zeeman effect, l	Klein theory,		1975 Nov p 46-54
cosmology, high-energy physics and cosmology	•	high-octane fuel, automobile engines, high compres	sion, 'knock',
	p 106-114 [311]	combustion chamber design, mechanical vs ch	emical solutions for
mesons, particle accelerator, pions, proton, quark, nuc		premature combustion	1950 Feb p 16-19
trajectory, high-energy scattering	967 Dec p 76-91	high pressure, synthetic diamonds, carbon phases,	thermodynamics,
elementary particles, energy levels, atom, nucleus, spec	ctroscopy, 'three	states of matter	1955 Nov p 42-46
	68 May p 15-19	amoebae, cell, cytology, sol-gel reaction, effect of	f high pressure on
Cerenkov radiation, tachyons, speed of light, special re	elatıvıty,	cellular activity	1958 Oct p 36-43
hypothetical particles faster than light 19	970 Feb p 68–77	magnetic resonance, atomic structure, magnetic i	
proton model, neutron structure, quark, scattering exp	eriments,	atom, behavior of atoms under high pressure	1965 Jan p 102-108
	971 June p 60–77	superconductivity, critical temperature, critical to	
atomic nucleus, atomic structure, exotic atoms, kaonic	c atoms, muonic	metals increases with pressure	1971 Apr p 83-94
atoms, particle accelerator, pions, quantum mechan	nics	high-pressure technology, synthetic diamonds, from	
	Nov p 102-110	industrial applications	1965 May p 38-46
beta decay, bubble chamber experiments, hadrons, ne	utrino beam,	Earth core, iron-nickel alloy, X-ray diffraction, c	rystallography, core
	973 Aug p 30–38	studies by analogy, diffraction patterns of iron	
antimatter, colliding-beam accelerator, electron-positi	ron annunation,	magnatism ultrastrong magnatic fields and	1965 June p 100-108
proton, parton model, quantum electrodynamics	3 Oct p 104-113	magnetism, ultrastrong magnetic fields, explosive implosion, flux compression	
colliding-beam accelerator, particle interaction, proto	•	high-resolution photography, moon, lunar surface, t	1965 July p 64–73
	973 Nov p 36-44	exploration, Lunar Orbiter space missions	1968 May p 58–78
particle interaction, gauge theory, field theory, 'weak'		high school, science curriculum, curriculum reform,	science teaching not
	1974 July p 50-59	enough scientists and engineers	1954 Feb p 27–29
dual-resonance model, hadrons, light-string theory, q		curriculum reform, science teaching, physics curr	nculum Physical
	975 Feb p 61-67	Science Study Committee, university sponsore	d curriculum reform
antimatter, electron-positron annihilation, J particle,		19	58 Apr p 56-64 [229]
charm, color, quark, storage rings, virtual particles	•	education, mathematics teaching curriculum refe	orm, university
	975 June p 50–62	sponsored curriculum reform 19	58 May n 64-74 12381
charmonium, charmed quarks, gauge theory, hadrons		science teaching, evolution, religion, curriculum i	reform Darwinsem
hypothesis, 'color' and 'flavor' in quarks	1975 Oct p 38~50	creationism, Bible, Man, a Course of Study, bi	ological sciences
hadrons, heavy leptons, J particle, quantum mechanic	cs, quark	curnculum study	1976 Apr p 33-39
hypothesis, intermediate vector bosons	1976 Jan p 44-54	high-speed photography, Kerr cell	1949 June p. 48_40
baryons, hadrons, leptons, mesons, quantum number confinement, bag model, infrared-slavery model, si	s, quark	rattlesnake, pit viper, fangs, rattlesnake 'bite' is a	stab
	976 Nov p 48-60	rain cireamlines	1953 Oct p 100-102
charmed quarks, hadrons, quantum mechanics quar	Charm	rain, streamlining	1954 Feb p 64-68
	Oct p 56-70 [388]	high temperature, hot springs, adaptation, low temp	ocrature, glaciation
mesons by proton and X-ray beams	1949 Mar p 25	gas compression shock was as about and	1949 Feb p 46-49
neutral meson found	1950 Mar p 26	gas compression, shock waves, shock tube, plasm clectromagnetically driven shock waves	a, mechanically and
multiplicity of particles	1950 Mar p 27	high-temperature physics, plasma jet 26000 degrees	1963 Feb p 109-119
particles proliterating	1950 June p 28	high vacuum, vacuum pump technology, achieveme	F 1957 May p 62
Furopean consortium (later C E.R N)	1952 Feb p 34	in laboratory	in and uses of Vacuum
CERN financed	1952 Dec p 34	ion pump	1950 May p 20-24
			1953 Jan p 36

herbarium resources, botanical collections, food plants, pharmacology	handst-
1977 Mm = 06 104 fines	heuristic programs, artificial intelligence, computer technology, computer programming
nemeter, termizers, insecucine, agricultural technology, chemical	hexaftexagons, mathematics, flexagon, flexigation, topology, delight and
	depth of mathematics 1956 Dec p 162-166
DDT, soil pollution, gamma radiation, X-ray, soil collegy	hexagonal habit, snow crystals, cloud physics, bullet clusters truzum
bacteria, chemical weapons, biological weapons, Vietnam war, arms	crystais, variations on a theme 1974 tan n 100_101
race, CS gas, virus ilisease, nekettsiae, tear gas, cliemical-biological	hilbernation, metabolic rate, thermoregulation, body temperature, animal
warrare 1970 Max n 15-25/11721	behavior 1950 Dec p 18-21
agricultural technology, muich, weed control, tillage without plou	hummingbird, metabolism, body temperature, thermoregulation, surface-to-volume ratio 1953 Jan. p. 69-72
1977 Jan p 28-33 [1349]	hypothermia, surgery, shock, metabolism, body temperature, artificial
herding, hunting food gathering, tribal cultures, agricultural society,	lowering of body temperature for surgery and shock
aboriginal culture, India, 'hving prehistory' in India	1958 Mar o 104-114
1967 Feb n 101-114	asphyxia, hreathing diving bradycardia, respiratory gas exchange,
increditary material, leukocyte, nucleus, DNA, Miescher, spermateroon	diving mammals, diving birds, oxygen storage, selective ischemia, human physiology, redistribution of oxygenated blood and 'master
nucleus curoniatin, discovery of DNA 1968 June n. 78_88 111001	switch of life' 1963 Dec. p 92-106
heredity, sexual reproduction, evolution, origin of sexual reproduction	adipose tissue, brown fat, thermoregulation, homeostasis metabolism,
1949 Apr p 52-55 chromosome, DNA, RNA, nucleoproteins, protein synthesis, DNA	cold adaptation, neonatal physiology, heat production in newborn
identified as agent of heredity 1953 Feb p 47-57 [28]	animals, including man 1965 Aug. p 62-65 [1018]
animal behavior, liabitat selection, ecological adaptation, learning, field	basal metabolism, homeothermy, circadian rhythm, feeding behavior
experiments with mice 1964 Oct n 109_116 f1051	circannual rhythm, hypothalamus, squirrels, dormice in hibernation 1968 Mar p 110-118 [513]
porphyria, genetie disease, metabolic disease, George III	animal behavior, biological clock, circadian rhythm, circannual
1969 July p 38-46 [1149]	rhythm, animal migration, manic depression
intelligence, race, whites, IQ, heredity, American Negro, population genetics, science policy, social psychology, twins, environment, racial	1971 Apr p 72-79 [1219]
discrimination 1970 Oct p 19-29 [1199]	hickory, fences, axe-handles, smoked ham, hickory nuts, economic
intelligence, race, whites, IQ, American Negro, heredity, population	botany, forest, natural history, shagbark hickory 1948 Sept p 40-43 hickory nuts, hickory, fences, axe-handles, smoked ham, economic
genetics, science policy, social psychology, twins, environment, racial	botany, forest, natural history, shagbark hickory 1948 Sept p 40-43
discrimination 1970 Oct p 19–29 [1199]	hieroglyphs, Sumer, cryptology, a 3.500-year-old agricultural handbook
hermaphrodite, cardiac function, hagfish, comparative psychology, cyclosomes, knot-tying fish 1966 Feb p 82-90 [1035]	1951 Nov p 54-55
cyclosomes, knot-tying fish 1966 Feb p 82-90 [1035] heroin, analgesics, morphine, opium, poppy, codeine, Bentley's	Sumer, law code, Ur-Nammu 1953 Jan p 26-28 writing, pictograph, ideographs, Mesopotamia, origin of writing in clay
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1966 Nov p 131-136 [304]	high-alumina cement, cement, chemical reaction, Portland cement,
herpes simplex, virus, chick-embry o culture, symbiosis	cement hardening and strength 1977 July p 82-90 [370]
1949 Nov p 50-53	high compression, automobile engines, 'knock', combustion chamber
herpes virus, adenoviruses, virology, X-ray diffraction, poliomyelitis	design, high-octane fuel, mechanical vs chemical solutions for premature combustion 1950 Feb p 16-19
virus, polyoma virus, influenza virus, vaccinia virus, tobacco mosaic	high-energy chemistry, chemical accelerators, molecular beam, ion beam
virus, bacteriophage, structure of viruses 1963 Jan p 48-56	sputtering 1968 Oct p 44-32
adenoviruses, cancer virus, virus disease, viral vaccines	high-energy photons, hadrons, 'strong' force, photons as hadrons 1971 July p 94-104
1973 Oct p 26–33 degenerative diseases, immune system, slow virus infection, virus	high-energy plusies, particle accelerator, inventory of plant world wide
disease, kuru, scrapie, cancer virus 1974 Feb p 32-40 [1289]	1948 Oct p 18-17
herpetology, animal behavior, locomotion, snake, lateral, rectilinear,	cosmic radiation, elementary particles, ion traps, secondary radiation
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1970 June p 82-96 [1180]	Dublin Institute for Advanced Study, report on a visit by Leopold Infeld 1949 Oct p 11-15
heat sensors, infrared receptors, sensory organs, snake, infrared laser [973 May p 94-100 [1272]	Manchester Birmingham report on visit by Leonold Infeld
herring, animal navigation, chemotaxis, shad migration, homing	1949 Nov p 40-43
behavior, temperature as migration control	Warsaw, report on a visit by Leopold Infeld 1949 Dec p 40-43
1973 Mar p 92-98 [1268]	radiation counters, particle counters, how counters work 1950 July p 40-43
'Hertzian' waves, radio, science history, electromagnetism, electromagnetic spectrum Heinrich Hertz biography	quantum mechanics, special relativity, atomic structure, science,
1957 Dec p 98-106	physics 1900-1950 1950 Sept p 28-31
Hertzsprung-Russell diagram, see H-R diagram	particle accelerator, cosmotron, Bevatron, technology of high energy physics moves into the Giga (billion) voli range 1951 Feb p 20-25
heteropod, 'false bottom', marine biology, plankton, sonar, shrimp, deep- sea scattering layer deep-sea 'layer of life' 1951 Aug. p 24-28	mesons v-particles fermion boson, the multiplicity of particles
sea scattering layer, deep-sea 'layer of life' 1951 Aug. p 24-28 beterostructure lasers, carner-wave generator, communication	1952 Jan p 22-27
technology, crystal structure, diode laser, laser, light-emitting	field theory, Classical physics, quantum fields, elementary particles,
commendator solid-state electronics 19/1 July p 32-40	with 20 particles known, a review of the theoretical foundations of physics 1953 Apr p 57-64 [208]
heterosynaptic facilitation, aplysia, neurones, behavior, learning, memory,	electromagnetic force, nuclear forces, proton, neutron, mesons, particle
synapse, memory and learning at nerve-cell level 1970 July p 57-70 [1182]	scattering fundamental research, what holds the nucleus together
heterothermy, 'cold-blooded' animals, ectothermy, metabolism, insect	1953 Sept p 58-63 cosmic radiation, massive nuclei, Milky Way, magnetic field, particle
flight, sphinx moths, temperature regulation, wanted at 20, 27 (1252)	acceleration, supernovae, fundamental research, where do cosmic
up mechanisms heterotrophs, origins of life, Miller-Urey experiment, high-energy	rays come from? 1953 Sept p 64-70 [239]
	quaternions, complex numbers, non commutative algebra, mathematics, Hamilton, life and work of William Rowan Hamilton
	1954 May p 82-87
ecology, energy cycle, biomass, solar energy, food chain, element 1958 Apr p 83-92	antiproton, positron proton, Bevairon antimatter, positilation and
abundance, autotropus, the ecosphere	discovery of antiproton 1956 June p 37-41 [244]
heterozygosity, evolution, gene poor, indutation general large general l	
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1 1		Cosmotron V-particles	1953 Sept p 78
atomic nucleus, nuclear physics, particle-scattering e	experiments,		1956 Apr p 60
electron scattering, models of the atomic nucleus		genesis of Argonne accelerator	
1956	July p 55-68 [217]	US-USSR. joint facilities	1960 Jan p 71
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	11 = 72 PC [214]	resonance 'particles', 'eightfold way'	1964 Jan p 54
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synchrotron, design and purposes of big accelerat		quark not observed	1964 June p 54
	Mar p 64-76 [251]	nine more particles	1964 July p 44
		intermediate boson not observed	1964 Oct p 59
antimatter, antiproton, antineutron, Bevatron, cosm	lology, universor,	quark, 'S U (3)' extended by 'S U (6)'	1965 Mar p 52
	1958 Apr p 34-39		. •
atomic nucleus, shell model, optical model, liquid-d	rop model, charge	fifth force not found, time-reversal symmetry violate	
exchange, spin-orbit force, resonance 'particles', p	proton, neutron,		1965 Apr p 56
- · · · · · · · · · · · · · · · · · · ·	1959 Jan p 75-82	'algebra of currents'	1967 Nov p 59
structure of the nucleus		US budget restrictions	1968 Aug. p 42
particle scattering experiments, particle accelerator,	, atomic nucleus,	<u> </u>	
method and technology of high-energy physics 1	.960 Mar p 98–114	Xi particles confirm SU(3)	1969 Mar p 48
particle interaction, muon, electron, 'weak' force, pr	roperties of massive	intersecting storage ring at CERN	1971 Jan p 47
negative particle 1961	July p 46-55 [275]	proton scattering at CERN	1971 Sept p 75
		conference on unification of weak and electromagnet	
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	Aug. p 90–98 [283]		1972 Nov p 49
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			Aug. p 44-53 [47]
	Feb p 74-93 [296]	mutation, radiation damage, nuclear medicine, X-ray	
alternating gradient synchrotron, 'eightfold way', o	mega minus		•
particle, bubble chamber, particle accelerator, U	S Brookhaven	biological damage by radiation 1960 A	ргр 142–153 [71]
National Laboratory experiment	1964 Oct p 36-45	high-flux isotope reactor, 'synthetic' elements, element	103, lawrencium,
proton spin, spin, 'strong' force, electron scattering		transuranium elements, heavy ion linear accelerate	or, periodic table
	1966 July p 68–78		963 Apr p 68-78
nuclear forces on spin			
storage rings, synchrotron, particle accelerator, col	liding beam	high-gradient magnetic separation, kaolin purification, i	
accelerator, spark chamber 1966 N	Nov p 107–116 [323]	separation, separation techniques, wastewater puri	fication
antimatter, Leidenfrost phenomenon, Zeeman effe	ct. Klein theory.	1	975 Nov p 46-54
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	A 106 114 (211)	combustion chamber design, mechanical vs chemic	
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Cerenkov radiation, tachyons, speed of light, speci			1958 Oct p 36-43
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proton model, neutron structure, quark, scattering	experiments,	atom, behavior of atoms under high pressure 19	65 Jan p 102-108
	1971 June p 60-77	superconductivity, entical temperature, entical temperature	erature in certain
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	1973 Oct p 104-113	implosion, flux compression	1965 July p 64-73
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electromagnetic force, 'strong' force	1974 July p 50-59		
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charmonium, charmed quarks, gauge theory, hadi	rone lenione quart	Scrence teaching or obstace and a second	fav p 64-74 [238]
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. 5	1976 Nov p 48-60	rain streamlining	3 Oct p 100–102
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Merone have a service of	77 Oct p 56-70 [388]	1	0.10 Eab - 46 40
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1071 1 76	hoarding, observed in rats 1950 July p 29
nigh-voltage transmission, alternating current electric power payer	b and the delical and the country and the same country country
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1964 May n. 39	"hole" plasma, plasma plassis, electron plasma, positive ion plasma,
mgaway engineering, automobiles, wheel bounce, road building	The state of the state of gas plasmas
'corrugated' road surface, 'washboard' road surface	hole tone, feedback, vortex, edge tone, aerodynamic whistles, sound
1963 Jan p 128-1	wates, whistles, flutes, organs and rocket engines 1970 Jan p 40-46
urban planning, Ciudad Guyana, cities, land ownership, economic	Holographic model, holography memory learning brain function
geography, a model city in Venezuela 1965 Sept. p. 122–1;	
urban planning, central city, cities, mass transit, open space, discressly, 'paths'	remembering 1969 Jan p. 73-86 [520]
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	b photography 1965 June p 24-35 [300]
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Hilbert spaces, mathematics, set theory, logic, paradox, non-Euclidian	1500 00p; p 114 11.
space, non-commutative algebra, science, mathematics 1900-1950.	memory, learning, brain function, interference patterns, monkey brain
undecidable questions 1950 Sept n 40-4	holographic model, neurophysiology of remembering 2 1969 Jan p 73-86 [520]
Hill reaction, photosynthesis, chloroplast, grana 1953 Nov. n. 80-8	
Himalaya formation, mountain formation, continental drift.	character recognition by computer 1966 Jan p 48
Gondwanaland, Indian-Ocean formation, magnetization patterns.	by sound waves 1968 Jan p 46
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1977 June p 82-98 Hippocratic oath for scientists, World Federation of Scientific Workers	extracellular 'compartments' 1958 Nov p 123-132
1948 June p 24	wound shock, body fluids, shock, emergency medicine, treatment of shock 1958 Dec p 115-124
hippopotamus, animal husbandry, antelope, giraffe, elephant, buffalo,	bacterial-cell wall, lysozyme, bacterial cytoplasm, protoplasts,
rhinoceros, wildlife husbandry in Africa 1960 Nov p 123-134	bacteriophage, flagella, dissection of bacteria by lysozyme
Hispaniola, West Indies, New World archeology, stone artifacts, island	1960 June p 132-142
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1969 Nov p 42-52 [652]	thermostat 1961 Jan p 134-14/ [127]
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die bile of them Dunkers genetic drift, endogamous group, car	pongid brains, endocranial casts 1974 July p 106-113 (800)
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H.M.O.: Health Maintenance Organization	old sites 1978 Apr p 90-108 [706]
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1978 June p 90-105 stellar formation, variable stars, infrared radiation, lithium, youngest	color photography, emission nebulae, interstellar gas, nebular
Stars? 1967 Aug n 30	luminosity 1974 Oct p 34-43 ionized-hydrogen cloud, Gum Nebula, Milky Way, Stromgren sphere
interstellar radiation, formation of interstellar infrared radiation	1971 Dec p 20-29
intracellular paracita, taxanlas anno 1967 Oct p 60	ionizing radiation, photoelectric effect, Compton effect, chemical effects
intracellular parasite, toxoplasmosis, parasitism, infectious disease, encephalitis, insect vectors 1953 Feb p 86-92	cytology, free radicals, lethal effects of radiation 1951 Dec p 22-25
intrauterine device, employed for bovine birth control in India	poisons, radioautography, 'bone-seekers', chelate, scintillation counter 1955 Aug p 34-39
1965 Jan p 51	mutation, recessive gene 1955 Nov p 58-68 [29]
intravenous feeding, human nutrition, medical care, synthetic diet	environmental pollution, background radiation, nuclear medicine
1972 May p 73-80 total nutration 1971 May p 51	atomic bomb test, introduction to single-topic tissue on ionizing radiation 1959 Sept p 74-53
intuition, geometry, foundations of mathematics, Hans Hahn on	atomic bomb test, isotopes, fallout, environmental pollution nuclear
geometry and intuition 1954 Apr p 84-91	medicine, circulation of radioisotopes 1959 Sept p 84-97
invariant/variable dyad, verbal communication, communication, acoustic formants, phonetics, markedness/unmarkedness dyad, morphemes,	chromosome breakage, radiation damage, mutation, cytology radiation damage to living cell 1959 Sept p 94-100 [57]
syntax, context sensitivity 1972 Sept p 72-80	atomic bomb test, radiation damage, leukenua, immune response,
invention, creativity, industrial research, applied science, solid state	fallout, nuclear medicine, radiation damage, whole-body irradiation
physics, Bell Laboratories solid-state physics 1958 Sept p 116-130	1959 Sept p 117-137
commerce, technology, patent-law reform 1967 June p 19–27 inversion layer, cloud seeding, water cycle, air pollution, water drop, ice	evolution, mutation, radiation-induced mutation in evolution 1959 Sept p 138-160 [55]
crystals, fog, smog 1968 Dec p 74–82 [876]	cancer therapy, tsotopes, X-ray, radiotherapy, dosimetry.
inverted coefficient, input-output analysis, interindustry transactions,	roentgenology, nuclear medicine, radiation use in medicine 1959 Sept p 164-176
input-output coefficient, matrix algebra, 1947 input-output table of US economy 1951 Oct p 15-21	free radicals, nolymerization, organic chemistry, tonizing radiation in
investment, economic development, Japan, employment policy, debt	industrial chemistry 1909 Sept p 100 170
financing, government-business relations, Japan's economic growth	metals, crystal structure, solid state physics, displacement of crystal structure by radiation 1959 Sept p 200-213
1970 Mar p 31–37	structure by radiation 1959 Sept p 200-213 environmental pollution, fallout, atomic bomb test, radiation damage
Io, Galileo, Jupiter, Jovian satellites, solar system, Europa, Callisto, Ganymede 1976 May p 108-116	mutation bubble health hazards of radiation to society
iodine, trace elements, iron, manganese, zinc, copper, magnesium, human	1959 Sept p 219-232 [1214]
nutrition 1953 Jan p 22–25	leukemia, leukocyte, cancer, chemotherapy, virus, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia
iodine deficiency, gotter, hypothyroidism, epidemiology, thyroid, todized salt 1971 June p 92-101 [1223]	1964 May p a 750
iodized salt, goster, hypothyroidism, iodine deficiency, epidemiology,	cosmic radiation, nuclear tracks, fission-track dating eithing
thyroid 1971 June p 92–101 [1223]	applications of charged-particle tracks in solids 1969 June p 30-39 fallout, radiation effects on human tissue cells 1957 Jan p 64
ion beam, spectroscopy, mass spectroscopy, separation techniques 1953 Mar p 68-74	no genetic damage threshold 1958 Aug p 45
crystal structure, channeling 1968 Mar p 90-98	ionosphere, upper atmosphere, stratosphere radio communication aurora, noctilucent clouds meteorology 1949 Jan p 30 39
chemical accelerators, molecular beam, sputtering, high-energy	Forth manager field lightning radio 'u hietlers' radio echoes of
ion cloud, meteorites, radio echo, spectroscopy 1951 June p 22-28	lightning 1956 Jan p 14 37
ion exchange, alkalı, desalination, amino-acid separation	communication technology, radio, microwave transmission
1950 NOV p 46-31	troposphere, ionospheric and tropospheric scattering 1957 Jan p 46-51
distillation, water, desalination, solar still alternative technologies 1957 Mar p 37-45	climate ueather solar und meteorology coronametry Latth's
and the supplementar sieves adsorption, separation of similar molecules	weather and solar wind 1957 Apr p 138-145 [84] solar corona solar prominences, solar flares atmosphere coupling of
1055 00 - 48	solar and terrestrial atmospheres 1938 Aug. p. 34-44
metals from the ocean 1953 Jan p 36	arrificial satellite, climate, aurora borealis. Van Allen belts, orbital
ion implantation, accelerated-ion technique, intersections	motion, meteorology solar particle influence on Larth atmosphere 1959 Aug p 37-41 [*5]]
semiconductor, doping	mierlecometry, solar system moon planets radar astronom,
semiconductor, 'doping ion potential, cell membrane, nerve impulse, biological role of potassium 1949 Aug. p. 16-21	technology and prom se of radar astronoms 1900 Aug. p. 50-50. Sun, solar echipse, solar flares, chromosphere, ultrasiolet radam, o
bioluminescence, membrane potential, plant cell calcium pump 1962 Oct p 107-117 [136]	t and Con chromounhere torcent etc interioris
electricity in plants	19/21 ch p 40 41
ion propulsion, nuclear propulsion, nuclear reactions 1959 May p 46-51 rocket propulsion by nuclear reactions	
Appendix Link	

aurora borealis, geomagnetism, solar radiation, magnetosphere, solar	irrigation, Nabataean culture, wadı, desert, agrıcultural system,
wind, physics of the aurora 1965 Dec. p. 54–62	restoration of Nabataean irrigation works in the Negev
airglow, atmosphere, solar radiation, ozone, oxygen atoms, upper	1956 Apr p 39–45
atmosphere, laboratory simulation, atomic energy levels	Negev desert, desert ecology, agricultural technology, land reclamation.
1966 Mar p 102–110	Israel, desert reclamation 1960 Mar p 54-63
plasma, solar radiation, Earth magnetic field, geomagnetism, barium	soil erosion, agricultural technology, poverty, economic development,
clouds, magnetosphere, electric field, artificial plasma clouds from	afforestation, Mediterranean Project, United Nations 1960 July p 86–103
rockets 1968 Nov p 80–92	economic development, Mekong river, monsoons, floods, hydro-
ionosphere reflection, long-range microwaves 1952 June p 36	engineering, rice, Mekong river plan, United Nations
ionospheric storms, Sun, solar flares, aurora, sunspots, geomagnetic	1963 Apr p 49–59
storms 1951 Dec p 17–21	economic development, industrialization, water supply, desalination,
solar corona, zodiacal light, Van Allen belts, solar prominences, solar atmosphere Farth in the Sun's atmosphere 1959 Oct p 64-71	water resource management, technology and economics of water in
atmosphere, Earth in the Sun's atmosphere 1959 Oct p 64-71 ionospheric winds, Earth, lunar tide, the ionosphere	economic development 1963 Sept p 92–108
1955 Sept p 126–138	ground water, artesian well, agricultural technology, Sahara desert,
1Q: intelligence quotient	water resource management, land reclamation, intercalary water,
1Q, intelligence, race, whites, heredity, American Negro, heredity,	'fossil' water, making desert fertile 1966 May p 21-29
population genetics, science policy, social psychology, twins,	sea water, salt-water agriculture, agronomy, and lands, salt tolerance
environment, racial discrimination 1970 Oct p 19-29 [1199]	1967 Mar p 89–96
intelligence test, challenged on cultural bias 1970 Nov p 44	ground water, tunneling, aqueducts, Iran, underground system, 3,00
Iran, Middle East oil, petroleum resources, energy economics, Persian	years old, still in use 1968 Apr p 94-105
Gulf fields, economic development, Iraq, Saudi Arabia	Arabia, trade, Near East, frankincense, myrrh, Biblical archeology,
1948 Sept p 9–15	cultures of southern Arabia 1969 Dec p 36-46 [653]
ground water, irrigation, tunneling, aqueducts, underground system,	human population, food production, fertilizers, pollution biosphere,
3,00 years old, still in use 1968 Apr. p 94–105	agricultural revolution, soil erosion, biosphere capacity to produce
Iraq, Middle East oil, petroleum resources, energy economics, Persian	food 1970 Sept p 160–170 [1196]
Gulf fields, economic development, Iran, Saudi Arabia	China, economic development, rice, hybrid wheat, agricultural technology, hybrid rice, livestock 1975 June p 13–21
1948 Sept p 9–15	technology, hybrid rice, livestock 1975 June p 13–21 center-pivot irrigation, ground water, agricultural technology
iridectomy, vision, glaucoma, blindness, human eye 1959 Aug p 110-117	1976 June p 90–99
iris, eye, rod cells, cone cells, retina, optogram, rhodopsin, camera,	'green revolution', India, food and agriculture, technology transfer,
anatomy and physiology of the eye, camera as metaphor	monsoons, fertilizers, rice, agronomy, wheat, hybrid crop plants
1950 Aug p 32–41 [46]	1976 Sept p 154–163
Irish families, cultural patterns, Italian families, schizophrenia,	agricultural resources, gene manipulation, photosynthesis, food and
schizophrenia and culture 1957 Aug. p 103-110	agriculture 1976 Sept p 164–178
Irish potato famine, potato blight, social influence of the potato	drip irrigation, trickle irrigation, agricultural technology
1952 Dec p 50–56	1977 Nov p 62–68 [1371]
iron, trace elements, manganese, zinc, copper, magnesium, iodine, human	Ishango man, cultural anthropology, Mesolithic era, harpoon, African
nutrition 1953 Jan p 22–25	culture 10,000 B C 1962 June p 105–116
magnetism, magnetic domains, cobalt, ferrites 1955 Jan p 68–73	Isimila, Paleolithic culture, stone tools, cultural archeology, Old Stone
lron Age, Bronze Age, ironworking history, metallurgy, carburizing, quenching 1977 Oct p 122–131 [699]	Age site in Africa 1961 Oct p 118–129 island ares, Earth crust continental evolution, volcanoes, sedimentation
lron age culture, Bronze Age, rock paintings, Camunian culture,	origin of the continents 1955 Sept p 62–66 [816]
Mycenaean civilization, Italian rock carvings 1960 Jan p 52–59	continental drift, remanent magnetism, plate tectorics, ocean floor,
iron melting, direct-reduction processes iron ore, sponge iron, steel	Wegener hypothesis re-stated with new evidence, age of rocks
production 1976 July p 68–80	1963 Apr p 86–100 [868]
iron-nickel alloy, Earth core, high-pressure technology, X-ray diffraction,	earthquake zones, lithospheric subduction, mountain formation, plate
crystallography, core studies by analogy, diffraction patterns of iron	tectonics, sea-floor spreading, subduction zones, volcanic zones
alloys 1965 June p 100–108	1975 Nov p 88–98 [919]
iron-nickel phases, diamond, meteorites, Canyon Diablo meteorite, shock	domes, hot spots, plate tectonics, ocean rifts, plumes, volcanoes
hypothesis, asteroids, origin of meteorites 1965 Oct p 26-36 iron ore, steel production, blast furnace, smelting, furnace smelting under	1976 Aug. p 46–57 [920]
pressure 1948 May p 54-57	island chains, West Indies, New World archeology, Hispaniola, stone artifacts, sea routes, seafaring hunters from Central America?
steel production, Labrador deposit 1948 Nov p 9-13	1969 Nov p 42–52 [652]
coal reserves, steel markets transportation, changing geography of steel	isobutane, ice crystals, desalination, sea-water freezing, heat of fusion,
1952 Jan p 44-53	freezing as alternative to distillation 1962 Dec. p. 41–47
mining, ore beneficiation low-grade ores, hematite, taconite	isomerism, isotopes, bulk effect, organic chemistry, paths of atoms in
1968 Jan p 28-35	chemical reactions 1957 Nov p 117–126 (85)
direct-reduction processes iron melting, sponge iron steel production	vision, visual pigments, opsin rhodopsin, vitamin A
Soviet magnetite fields 1976 July p 68–80 1960 Oct p 84	1967 June p 64–76 [1075]
Soviet magnetite fields 1960 Oct p 84 from smelting, coal technology, technology history, Industrial Revolution	isoniazid, isotopes, tuberculosis, streptomycin, para-aminosalicylic acid
blast furnace Newcomen engine 1974 Aug. p 92–97	pharmacology, tracing action of TB drugs 1956 Nov p 135-144 isoprene, butadiene, rubber synthesis, vulcanization latex, elastomers
ironworking history, Bronze Age, Iron Age, metallurgy, carburizing.	synthetic rubber, molecular structure 1956 Nov p 74–88
quenching 1977 Oct p 122–131 [699]	isostasis. Earth crust, mountain formation, granitization, ocean basins,
Iroquois Confederacy, Amerindian, New World archeology, cannibalism	ocean Hoor, tectonic processes comprehensive review of
Onandaga tribc 1971 Feb p 32–42 [658]	understanding (before acceptance of continental drift)
irradiated plastics, cross-linking improved 1954 Aug p 40 irradiated water, hydrated electron 1963 Apr. p. 82	1950 May n. 22 41
Irradiation standards, electromagnetic spectrum, microwaye diodes	roomane equatorium, Larin mantle plastic zone seismologi, bacate
microwave radiation risk estimation technology assessment	vionorovicie discontinuity, plastic zone at depth between 37 and 155
1077 Feb m 12 31	111105
irrational numbers, mathematics number theory, negative numbers	isotactic polymers, polymers, 'stereoregular' polymers polyethylene catalytic polymerization polypropylene, precisely constructed
Complex numbers mains 1004 come = co co	POINTEES 1061 Aug = 33 41 for a
irregular galaxies, galactic evolution, universe, galactic clusters, irregular galaxies as clues to galactic evolution 1961 Feb p 50-57	isothermal combustion, Carnot cycle Diesel engine automobile
t have a vender to galactic evolution 1961 Feb p 50-57	Diesel's 'rational' engine 1969 Aug. p 108–117
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isotope dating, lead isotopes, radioisotope dating, strontium-rubidium ratios, geological and paleontological time dated by radioactive	Japan, pottery, human nugration, navigation, Ecuador, New World
decay 1949 Aug p 48- ocean floor, sonar, seismology, sedimentary cores, Albaiross voyage,	1 400 430 0 40-11
Swedish deep-sea expedition 1950 Aug p 42- radioactive decay, solar system, meteorites, Earth crust, age of solar	Ama, diving, diving women, Korea, breathing, human physiology, basal metabolism, adaptation 1967 May p. 34-43
1957 Apr p 80-94 []	economic development, employment policy, investment, debt financing, government-business relations, Japan's economic growth
mantle rock dating by strontium isotope 1965 Mar p isotope separation, gas separation, laser, laser-light pressure, radiation	56 1970 Mar p 31-37
pressure, 'optical bottle', atomic and molecular beams	Japanese macaques, primate behavior, monkey, primate societies,
1972 Feb. n. 62.	protocultural behavior, social status 1976 Oct p 96-106 [1345] Japan's 'divine wind', typhoon that repelled Kublai Khan
laser-excitation technique, light absorption, quantum mechanics, uranium enrichment 1977 Feb p 86-98 [35]	1976 June p 51
isotope tracing, duck-billed platypus, lactogenesis, milk, mammal.	54] Jarmo site, agricultural revolution, radiocarbon dating archeology, care to village at Jarmo 1952 Oct p 62-66
synthesis of milk 1957 Oct p 121-1 isotopes, radioautography, molecular biology, cytology, use of	Java man, human evolution, Homo erectus, fossil men, Peking man
radioisotopes in biological research 1949 Feb n 30.	Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630] jawless fish, lamprey, pest control, Great Lakes, trout, whitelish
A E C, U S Atomic Energy Commission makes isotopes available,	1955 Apr p 36-41
free, to cancer research 1949 Apr p 16- periodic table, 'synthetic' elements, transuranium elements, table of	
elements, stable isotopes, first of a series of articles, recomming the	Jericho, Neoluthic archeology, Biblical archeology, 'world's oldest cith' 1954 Apr. p. 76-82
completion of the table of elements (43 [technetium],	world's oldest town 1952 Nov p 48
61[promethium], 85[astatine] and 87[francium]) and the first five transurance elements (93[neptunium], 94[plutonium], 95[americium]	Biblical archeology, oldest city 1956 Nov. p. 68 Biblical archeology, from cave to village 1957 Sept. p. 116
96[curium] and 97[berkelium]) 1950 Apr p 38-47 [24]	21 Jerusalem, Palestine, Biblical archeology, city of Jehusites, David Herod
fission products, uses in science and technology 1952 June p 19-2 thermonuclear reaction, element abundance, stellar evolution, university	1965 July p 84-71
'synthetic' elements, particle accelerator, experimental astrophysics	iet flight, gerodynamics, gyrcraft-wake vortexes, contrails, flight safett
1956 Sept p 82-9	wake turbulence 1974 Mar p 16-6
isomazid, tuberculosis, streptomycin, para-aminosalicylic acid, pharmacology, tracing action of TB drugs 1956 Nov p 135-14	jet lag, air travel 1966 Feb p 53 4 time-zone effects 1969 Aug p 57
isomerism, bulk effect, organic chemistry, paths of atoms in chemical	ict liner. British Comet 1952 Aug p 33
reactions 1957 Nov p 117–126 [85	1000 Day in 7641
atomic bomb test, ionizing radiation, fallout, environmental pollution, nuclear medicine, circulation of radioisotopes 1959 Sept p 84-93	weather forecasting, long-wave forecasting 1955 Aug p 40-41
cancer therapy, X-ray, radiotherapy, ionizing radiation, dosimetry,	weather, thunderstorms, wind, squall lines, low-althode jet streams 1961 Aug p 120-131
roentgenology, nuclear medicine, radiation use in medicine 1959 Sept. p. 164-176	iet velocity, ion propulsion, plasma iet, cesium-ion beam,
ascites tumor, radioautography, cell life cycle, cellular autobiography	magnetohydrodynamics, electrical propulsion, space exploration
1963 Aug p 103-110 [165] alpha decay, transuranium elements, nuclear stability, beta decay,	ingular physics, human language physics, broken English, tribute to
radioactive decay, 'synthetic' elements, periodic table, the	Miele Dobe
'superheavy' elements beyond 103 1969 Apr p 56-67	The same of the sa
elements, radioactive decay, atomic nucleus, 'synthetic' elements, exonic isotopes of light elements 1978 June p 60-72 [3010]	1964 Aug p 15"
Federation of American Scientists proposal 1949 Apr p 24	2 1 1/11 Tre
British exports ahead 1952 Dec p 38 labeled cortisone 1953 Aug p 46	ninelines water supply. Israel, Jordan 1903 wat 1/22
uses in medicine 1956 Sept p 111	Josephson effects, electric current, superconductivity microwate emission tunnel junction, quantum mechanics confirmation and
uses in agriculture and industry 1957 July p 64 isotropy, uranium lission, nuclear fission, fission products, 'synthetic'	and the same of Ionambook offents
elements, radium, transuranium elements, science history, discovery	coherent matter waves
of fission 1958 Feb p 76-84 cosmology, universe expansion, cosmic background radiation, big	Joshua trees, desert ecology mesquite crossote hushes 1955 Apr. p. 68-75 [114]
bane' theory, low-energy radiowaves, primeval fireball, helium	Joule, Carnot Rumford, science history heat pioneers in the theory of
abundance, 'big bang' theory and cosmic background radiation 1967 June p 28-37	sourced bearing bearing Jubrication friction west 1975 July p 30 fee
Israel comparative religion, ethnic groups, gene isolation, Judaism,	Jovian meteorology, Jupiter planetary atmosphere planets solut 5) slem
Samaritans, Holon and Nablus communities 1977 Jan p 100-108 [690]	Joven moons, Great Red Snot liquid planets atmospheric effculation
terior continual natterns Irish families, schizophrenia,	Jupiter, solar system 1975 Sept. p. 110
	Joylan satellites, Galileo Jupiter solar system Turopa Callisto Ganymede To 1976 May p 108 116
Italy, Greek civilization, Cumae, Classical archeology, 8th c B C Greek civilization, Tumae, Classical archeology, 8th c B C Greek colony first in Italy 1963 Dec p 108-121	ludaism blood typing racial discrimination relicious persecution seed
Colony Mac Market	evolution genetic drift population genetics Jewish community of Rome 1957 Mar p (18 15)
T	Dead Sea scrolls. New Covenanters. Biblical archeology. Quintum site. 1973. Nov. p. 72-84
J	Dead Sea wrolls Gnosue library religion 1973 I in P 1973
J particle, antimatter, electron-positron annihilation, psi particle, charm	Comparative religion ethnic groups gene isolation. Is rel. Samaritans Holon and Nablus communities. 1977 Inc. p. 103-102 [6.8.]
color, quark, high-energy physics, storage 1975 June p 50-62	Junction diode, light emitting diode semicorductive liver electron beam
before bears leptons high-energy physics, quantum mechanics	Junction diode amplifiers, amplifiers, sound reproduction, transistor
quark hypothesis intermediate veetes 1975 Jan p 48	electronic circuitry in resignation of the following the first section transition, transition and amount to be electronic transitions of the first section o
massive, long-lived puzzie	junction transition, from the factor of the first transition for a strict a tree of the name of transition of the first transi
history, science history, punched cards 1972 Rog p	15.2 Anh & 15.2.

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germanium crystal, 'doping', triode	1952 July p 28-32	Kepler, musical scale, tone ladder, Pythagorean doctrine, music and
piter, imine radical, hydrazine radical, frozen fre	e radicals, low	mathematics, harmonic proportions, vibrating string 1967 Dec p 92-103
temperature physics modelling of Jupiter	1956 June p 119–128	
Venus, solar system, planets, radio astronomy, n	neasuring planetary	Kepler crater, lunar luminescence, moon, solar radiation, solar flares, meteorites, impact of solar protons? 1965 May p 28-37
surface temperature	1961 May p 58-65	Kepler's laws, planetary motion, science history 1972 Mar p 92–106
Van Allen belts, radio emissions, magnetic field,	origin of Jovian radio	Kepler's supernova, supernovae, Chinese starcharts, Tycho's supernova,
waves	1964 July p 34–42	'guest stars', the seven observed supernovae 1976 June p 100–107
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Mars, moon, spectrometry, history and recent	1965 Aug p 20–29	motility in bacteria 1951 Jan p 20–24
astronomy Taylor column, Great Red Spot, planetary atmo-		collagen, elastin, myosin, fibrin, cell, polymers, polymers in living cells
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period, nydrodynamie explanation vo rate as	1968 Feb p 74-82	evolution, horn, antler, osteogenesis, bone, ungulates, differences
Great Red Spot, liquid planets, Jovian moons, a	itmospheric circulation,	between horns and antlers 1969 Apr p 114-122 [1139]
solar system	1975 Sept p 118–126	X-ray diffraction, protein structure, alpha keratin, feather keratin
Jovian meteorology, planetary atmosphere, plan	iets, solar system, Great	1969 Aug p 86–96 [1155]
Red Spot	1976 Mar p 46-56	keratin myosin epidermis flagella, see k m e f
Galileo, Jovian satellites, solar system, Europa,	Callisto, Ganymede, Io	kerato-conjunctivitis, herpes sumplex, treatment 1962 Apr p 80 Kerr cell, high-speed photography 1949 June p 48–49
	1976 May p 108-116	Kerr cell, high-speed photography 1949 June p 48-49 Kerr effect, communication technology, laser, pulse-code modulation,
radio emissions	1955 June p 50 1960 July p 81	electron optics, Pockel's effect, polarization, modulators, modulation
Jovian Van Allen belt calculations	1974 Feb p 42	of laser light 1968 June p 17–23
report from Pioneer 10 mission urisdictional disputes, pollution control, internati		Kerr gate, laser mode-locking, molecular motion, quantum mechanics,
oceanography, resource management, interna-	ational competition and	Raman clock, ultrafast phenomena, picosecond molecular processes
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	1974 Dec p 23-31 [562]	1972 Dec p 43
juvenile delinquency, 1ts genesis	1950 Dec p 28	kidney, counter-current exchange, urine, nephron, glomerulus, osmosis,
by contagion from parents	1954 June p 50	anatomy and physiology of the kidney 1953 Jan p 40–48 [37]
personality of delinquent	1956 Aug p 57	desert rat, water balance, oxidation of food, how banner-tailed kangaroo rat survives without water 1953 July p 73-78 [1050]
juvenile hormone, insect metamorphosis, larvae,	1950 Apr p 24–28	diabetes insipidus, thirst, salt excretion, electrolyte balance,
hormonal control in silkworm moth entomology, silkworm, insect metamorphosis,		thermoregulation, urine, physiological psychology, osmoreceptor
development	1958 Feb p 67–74	theory of thurst, Cannon 'dry mouth' theory 1956 Jan p 70-76
insect metamorphosis, tissue differentiation, co		artificial kidney, dialysis 1961 July p 56-64
insect development	959 Feb p 100-110 [63]	counter-current exchange, rete mirabile, heat conservation, physiology,
insecticide, balsam-fir factor, insect hormones	, insecticide resistance,	swim bladder, gill, physics of a physiological invention
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	1967 July p 13–17 [1078]	kidney calculi, crystal structure, lithiasis, X-ray diffraction, bladder
insect physiology, balsam fir factor	1965 Oct p 39	stones, gallstones, urinary calculi 1968 Dec p 104-111 kidney disorder, stress, psychosomatic illness, alarm reaction,
ecdysone synthesized	1966 May p 52	cardiovascular disease, adrenal gland 1949 Mar p 20–23 [4]
		anemia, brain damage, environmental toxins, blood disorders, lead
77		poisoning, nerve disorders 1971 Feb p 15-23 [1211]
K		kidney function, angiotensin, hypertension, human physiology, isolation
		of angiotension 1959 Mar p 54-58
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'worned well' medical care financing, H M O, Medicaid, M	iedicare medical	1959 Dec p 140-151 [1096] behavioral adaptation, ground squirrels, Mojave desert, animal
technology, national health insurance	1973 Sept p 169-175	behavior, thermoregulation, desert adaptation, desert mammals'
Kaiser Wilhelm Institute, replaced by Max Plan		adaptations to heat and aridity 1961 Nov p 107-116
	1948 July p 31	kidney machine, dialysis, heart-lung machine, surgery
Kalinga prize, to Julian Huxley	1953 Sept p 74	1954 Aug p 24–27
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kallidin, kınıns, peptides, venom, inflammation		mechanical heart implant 1965 Nov p 38-46 [1023] kidney tubule, sodium pump, membrane potential, active transport, cell
local hormones, production and distribution	on	membrane, biological pumps 1962 Aug p 100–108
1	962 Aug p 111-118 [132]	killer bees, bee, reputation inflated 1976 Jan p. 63
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our particulation, ingli-gradient magnetic sept	s, mammalian evolution, 1977 Aug p. 78–89 [1366]	kiln, fire-making, human evolution, fire vegetation, cooking. Neolithic revolution, furnace, heat, introduction to single-topic issue on heat
separation, separation techniques, wastew	s, mammalian evolution, 1977 Aug p 78–89 [1366] aration, magnetic	kiln, fire-making, human evolution, fire vegetation, cooking, Neolithic revolution, furnace, heat, introduction to single-topic issue on heat
separation, separation techniques, wastew	s, mammalian evolution. 1977 Aug p 78–89 [1366] aration, magnetic ater purification 1975 Nov. p. 46-54	kiln, fire-making, human evolution, fire vegetation, cooking. Neolithic revolution, furnace, heat, introduction to single-topic issue on heat 1954 Sept p 52-57 kilomegacycle waves, ultrasonics, sound waves, acoustic waves at optical
separation, separation techniques, wastew kaonic atoms, atomic nucleus, atomic structure	s, mammalian evolution. 1977 Aug p 78–89 [1366] aration, magnetic ater purification 1975 Nov p 46–54	kiln, fire-making, human evolution, fire vegetation, cooking. Neolithic revolution, furnace, heat, introduction to single-topic issue on heat 1954 Sept p 52-57 kilomegacycle waves, ultrasonics, sound waves, acoustic waves at optical wavelength
kaonic atoms, atomic nucleus, atomic structure atoms, particle accelerator, pions, quantui	s, mammalian evolution. 1977 Aug p 78-89 [1366] aration, magnetic ater purification 1975 Nov p 46-54 c, exotic atoms, muonic m mechanics, high-energy	kiln, fire-making, human evolution, fire vegetation, cooking. Neolithic revolution, furnace, heat, introduction to single-topic issue on heat 1954 Sept p 52-57 kilomegacycle waves, ultrasonics, sound waves, acoustic waves at optical wavelength 1963 June p 60-68 kimberlite pipes, diamond, plumes, Earth mantle, volcanic eruption, genesis of kimberlite pipes 1978 Apr. p. 120, 132, 1621
kaonic atoms, atomic nucleus, atomic structure atoms, particle accelerator, pions, quantui physics	s, mammalian evolution. 1977 Aug p 78–89 [1366] aration, magnetic ater purification 1975 Nov p 46-54 e, exotic atoms, muonic m mechanics, high-energy 1972 Nov p 102–110	kiln, fire-making, human evolution, fire vegetation, cooking. Neolithic revolution, furnace, heat, introduction to single-topic issue on heat 1954 Sept p 52-57 kilomegacycle waves, ultrasonics, sound waves, acoustic waves at optical wavelength 1963 June p 60-68 kimberlite pipes, diamond, plumes. Earth mantle, volcanic eruption, genesis of kimberlite pipes 1978 Apr p 120-132 [931] kimberlites, Earth mantle, meteorite composition, plate tectonics, seismic
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separation, separation techniques, wastew kaonic atoms, atomic nucleus, atomic structure atoms, particle accelerator, pions, quantui physics Karatepe citadel, Hittites, Phoenician script Karimojong, animal husbandry, cattle, subsiste	s, mammalian evolution. 1977 Aug p 78–89 [1366] aration, magnetic ater purification 1975 Nov p 46-54 e, exotic atoms, muonic m mechanics, high-energy 1972 Nov p 102–110 1949 Aug p 22-23 ence herding, Uganda	kiln, fire-making, human evolution, fire vegetation, cooking. Neolithic revolution, furnace, heat, introduction to single-topic issue on heat 1954 Sept p 52-57 kilomegacycle waves, ultrasonics, sound waves, acoustic waves at optical wavelength 1963 June p 60-68 kimberlite pipes, diamond, plumes, Earth mantle, volcanic eruption, genesis of kimberlite pipes 1978 Apr p 120-132 [931] kimberlites, Earth mantle, meteorite composition, plate tectonics, seismic waves, plumes, Earth dynamics 1975 Mar p 50-63 [915] kinesthetic memory, spatial orientation, visual percention
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sensory perception, spatial orientation, sensory feedback, plasticity in	krypton 86, international time standard 1960 Dec p 75
sensory-motor systems in man and cats 1965 Nov n 84 04 140	Krypton 86, international time standard 1960 Dec p 75 Kuanyama Ambo, anthropology, social controls, murder, monarchy
Arrow, white pine, North American forests, Royal Navy,	1060 Comments
American Revolution, colonial building 1948 Tune n 40 5	Kung bushmen, baboons, human evolution social behavior, comparative
kinns, peptides, kallidin, venom, inflammation, bradykinin elabulin	psychology, social anthropology, sexual behavior, ongin of society
local hormones, production and distribution	1060 Come = 76 07 (601)
1962 Aug p 111-118 [132	kuru, brain disease, scrapie, Chediak-Higashi syndrome, virus disease,
kinship, Ashanti, Tallensi, social anthropology, extended family, social	animal vectors, multiple sclerosis 1967 Jan p 110-116
structure, social psychology, primitive Tallensian and Ashantian	degenerative diseases, immine system, slow virus infection, virus
kinship 1959 June p 146-15 Kirlian photography, analyzed 1976 Dec. p. 5	disease, scrapie, cancer virus, herpes virus 1974 Feb p 32-40 [1289]
Mirian photography, analyzed 1976 Dec p 5	3 kwashiorkor, malnutrition, diet, food supply, human nutrition
kittens, animal behavior, developmental psychology, homing behavior, learning, suckling 1972 Dec n 18-25 1553	1954 Dec p 46-50
learning, suckling 1972 Dec p 18-25 [552 Klamath weed, weed control, insect herbivores, agricultural technology,	of the state of th
leaf-eating beetle, living herbicides 1957 July p. 56-6	physiology of starvation 1971 Oct p 14-21 [1232]
klein bottle, topology, inner-tube eversion, Mobius band, trefoil knot,	1
Koenigsberg bridges, four-color-map problem, three-cottages	
problem 1950 Jan p 18-24	, I
Klein theory, antimatter, Leidenfrost phenomenon, Zeeman effect, high-	L
energy physics, cosmology, high-energy physics and cosmology	labor canability man day musels name beyont to management'
1967 Apr p 106–114 [311]	labor capability, man-day, muscle power, 'scientific management' 1971 Oct p 96-103
Klinefelter's syndrome, Down's syndrome, chromosomal anomalies.	labor cost, productivity, mechanization, capital cost 1955 July p 33-35
trisomy 21, genetic defect, meiosis, mitosis, gene translocation,	labor force, productivity, incommization, capital cost 1755 stay p 12 to
nondisjunction, afflictions associated with abnormal chromosome	1951 Sept p 36-41
complement 1961 Nov p 66-76 [150]	engineering manpower, employment by industry, disciplinary
Barr body, sex differences, chromosome, genetic mosaic, cytology,	distribution 1951 Sept p 65-69
Turner's syndrome, chromosomal anomalies, sex differences in tissue	science manpower, disciplinary distribution, employment by sector
cells 1963 July p 54-62 [161]	1951 Sept p 71-76
klystron, microwaves, optical properties, Maxwell's equations, traveling-	productivity, capital-output ratio, automatic control, cconomic and
wave tube, magnetron, waveguides, communication, radar	social impact of automatic control 1952 Sept p 150-160
1952 Aug p 43-51	education, US population, age-sex distribution, demographics, gross
microwaves, radar, particle accelerator 1954 Mar p 84-90	national product, US census, more from the US census of 1960 1962 Oct p 30-37
microwaves, molecular rotation, spectroscopy, laboratory applications of microwaves 1957 May p 46-53	automatic control, economics, technology, input-output analysis, US
of microwaves 1957 May p 46-53 klystron giant, 15mW pulses 1952 Nov p 42	impact of technological change, 1947-1958, input-output lables
klystron tube, electron accelerator, linear accelerator, Stanford Linear	1966 Apr p 25-31 [629]
Accelerator Center, two-mile Stanford Linear Accelerator	developed countries sex role human nopulation women's status
1961 Nov p 49-57 [322]	1974 Sept. p. 138–147
k.m.e.f.: keratin myosin epidermis flagella	employment levels, mannower policy, U.S. economy, women in labor
'h.m.e.f.' group, flagella, contractile proteins, keratin, myosin, epidermis,	force to be creation vs. to be distilled 197/ No. D. 43-31 (197)
mottlity in bacteria 1951 Jan p 20-24	2.7 million in science and technology 1963 Sept p 82
knee joint, surgical prosthesis, human anatomy, surgical replacement of	US, a service economy 1969 Apr p 48
the knee joint 1978 Jan p 44-51 [1378]	labor-saving devices, robot, assembly computer applications,
'knock', automobile engines, high compression, combustion chamber	manufacturing productivity programmable robot for product assembly 1978 Feb p 62-74 [929]
design, high-octane fuel, mechanical vs chemical solutions for	assembly 1978 Fen p 62-14 (757) laboratory animals, pig comparative physiology, small pig as
premature combustion 1950 Feb p 16-19	
knot-tying fish, cardiac function, hagfish, comparative psychology, cyclosomes, hermaphrodite 1966 Fcb p 82-90 [1035]	1966 June p 94-100 [1045]
knots, mathematics, geometry, topology, quinary system, decimal system,	laborators services, medical care, community hospital, niedical center
tessellation, primitive mathematics 1948 Dec. p. 44-49	general practitioner, medical specialist. Bingham plan, organization
Koenigsberg bridges, topology, inner-tube eversion, Mobius band, Klein	of medical technology 1948 Oct 17
bottle, trefoil knot, four-color-map problem, three-cottages problem	Labrador, Amerindian, New World archeology, burial mounds
1950 Jan p 18-24	Labrador deposit, steel production, fron ore 1948 Nov. p. 0.13
Euler, topology, essay by Leonard Euler on the Kocnigsberg bridges	Labrador deposit, steel production, fron ore 1948 Nov p 9 17 lae repressor, phagocytosis gene expression repressor molecules
1953 July p 66-71	operator-repressor system lambda repressor, isolation of the gen-
mathematics, mnemonics, salesman's route, delight and depth in	repressors, how they work 1970 June p 30-44 [11]
algorithms, computer science, undecidable questions, polynomial-time	therimateland to not dance terre near amount reflex DVChO/Chi
problems, exponential-time problems, efficiency of algorithms	and continuous tears 1964 Oct p 1964
1978 Jan 1) 30~109 [293]	factic acid formation, ATP, muscle, glycolysis aerobic metabolism
Korea, Ama, diving diving women, Japan, breathing human physiology,	oxygen debt, aerobic metabolism an ierobic metabolism energy mechanisms in muscle 1972 Mar. p. 84-91 [1244]
to the contration adaptation (70/1988) (70/1988)	mechanisms in muscle 1972 Mar p 84 91 112 7 factic acidosis, anxiety neurosis adrenatin, biochemistry of anxiety
tenfe process forest products wood putp, paper, cellulose, uguni rayon,	1909 Leb p (9 75 [521]
u nete rem Clino	Increased the Labiled planner isotope teacher nelle minimal
Krakatoa, volcanic eruption, plant succession, ecology 1949 Sept. p. 52-54	synthesis of milk 1957 Oct p 121 (*
1952 tan n 40	milk, mammary gland casein hormonal action cell secretion
krebiozen, Dr. lvy unfrocked 1953 Sept. p. 72	composition and continue of coa's fills 1979 July P - "
Red' Grange fires Stoddard 1963 Oct p 54 creating history of the largest	lactose tolerance, enzyme deficiency, genetic diec i e milk su ir milk diec tolerance, enzyme deficiency, genetic diec i e milk su ir milk diec tolerance, enzyme deficiency, genetic diec i e milk su ir milk diec tolerance, enzyme deficiency, genetic diec i e milk su ir milk
a see the contract of the Cont	digestion problem Lake Amatillan, Maya civilization underwater archeology (40) ff. (41) 1059 May to the fifth of the first of the fir
animal 1956 Dec. p. 46-50	Gusternala 1959 Mar p. tota 111
food eli in plankton, whale. Antarctic convergence Luphausia 1955 Jan p. 84-57[553]	"Jake-duellers', Palent of a culture Control of meet, the Control of the
superby food chain blue while	dael'ers
Antiretica oceanography mirine biology, food chain blue while ecology, Antaretic convergence biological prosince ("Antaretic ecology, Antaretic econvergence biological prosince ("Antaretic econography") and the econography of the econog	Take gas', as first fishe how
ecologi, Antarene convergence and a least sept p 10, 210	famarek, is micromorganis for type post mostes
krypton 85, inclustrial application [553 \ \ \ p \ f \ \]	Lander Contract
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orthodoxy, Darwinism, experiments in acqu	ured characteristics 1953 Dec p 92-99	communication, human evolution, speech, origin o	of speech O Sept p 88-96 [603]
ambda decay, time reversal, symmetry, parity, cl	harge conservation, CPT	computer translation, computer study of structure	
conservation, proton spin, experiments in ti	me reversal	brain hemispheres, cerebral dominance, perception	
* 1-1	1969 Oct p 88~101	experiments, corpus callosum, intelligence, local	lization of brain
ambda hyperon, particle physics, hyperons, hype	1962 Jan p 50-56		7 Aug p 24-29 [508]
ambda repressor, phagocytosis, gene expression		bilingualism, communication, reading, information	
operator-repressor system, lac repressor, isc	plation of two gene	learning	1968 Mar p 78-86
repressors, how they work	1970 June p 36-44 [1179]	aphasia, brain damage, Broca's area, speech disord	
aminar flow, boundary layer, airfoil, turbulence	, aerodynamics		Apr p 76–83 [1246]
	1954 Aug p 72–77	visual perception, bilingualism, dyslexia, eye move	
heat, propulsion, energy transformation, aero	thermodynamics,		⁷ 2 July p 84–91 [545]
turbulence, high temperatures propulsion	1954 Sept p 120-131	communication technology, cybernetics, informati communication, communication, introduction t	
fish, swimming, turbulence, purpoises, how fi	snes and sea-going 1957 Aug p 48-54 [1113]		2 Sept p 30-41 [677]
mammals swim lammergeier, alpine environment, cushion plant		information theory, painting, sculpture, architectu	• • •
mountain ecology	1961 Oct p 68–78	communication, communication, trademarks, vi	
flampbrush' chromosome, cell differentiation, tis			2 Sept p 82-96 [548]
embryonic development, zygote, fertilization	on, ovum, clone, cytology,	child development, communication, social speech	-
how cells specialize	1961 Sept p 124-140		Feb p 100-105 [576]
lamprey, jawless fish, pest control, Great Lakes	, trout, whitefish	language diffusion, Africa, Bantu language, Early Iro	
	1955 Apr p 36-41		1977 Apr p 106-114
land animals, fossil fish, coelocanth, evolution	1955 Dec p 34-39 [631]	language of science, English or German language organization, grammar, linguistics, speech of	1956 Apr p 71
land management, land use, grazing, forestry, ra	1970 Feb p 88–96 [1169]		Dec p 110-117 [556]
resources, US Western states land ownership, land use, urban planning, Stock		Laplace, politics, cosmology, physics, life and work	
renewal, Stockholm as a planned city	1965 Sept p 106-115	Laplace	1954 June p 76-81
urban planning, Ciudad Guyana, cities, econ		large-scale integrated circuits, computer memory, int	legrated circuits,
engineering, a model city in Venezuela	1965 Sept p 122-132	metal oxide semiconductors, microelectronics, l	
land reclamation, trace elements, cobalt, desert	ecology, vitamin B12	transistor	1970 Feb p 22-31
synthesis, agricultural technology, reclama	ation of infertile	integrated circuits, photolithographic techniques,	
Austrialian land Negev desert, irrigation, desert ecology, agric	1959 Jan p 97–106	integrated circuits 1977 S binary arithmetic, Boolean logic, integrated circuit	Sept p 110–128 [377]
desert reclamation	1960 Mar p 54–63		Sept p 82-106 [376]
irrigation, ground water, artestan well, agrict		larvae, tnsect metamorphosis, juvenile hormone, pup	
desert, water resource management, interc	calary water, 'fossil' water,	hormonal control in silkworm moth	1950 Apr p 24-28
making desert fertile	1966 May p 21-29	alkaloids, butterfly, symbiosis, insect repellants, be	
coal mining, strip-mining	1975 Dec p 23-29	plant evolution, mimicry, butterfly-plant associa	
strip-mining	1974 Aug p 48	1967 Ju	ine p 104–113 [1076]
land reform, agricultural technology, food supp		mosquitoes, yellow fever, sexual behavior, reprodu Aegypti	
FAO, human nutrition, FAO Indicative	1970 Aug p 54~69 [1186]	cell culture, cell differentiation, fruit fly, transdete	1968 Apr p 108–116
land subsidence, petroleum extraction, water u		1968 N	ov p 110-120 [1127]
, •	1967 June p 93-100	larynx, music, voice, singing voice, pharynx, acoustic	es of singing voice
California oilfield	1950 Jan p 30		1977 Mar p 82-91
land use, urban planning, Stockholm, cities, la		Lascaux, cave art, cave paintings, Paleolithic archeol	
renewal, Stockholm as a planned city	1965 Sept p 106-115	Altamira laser: light amplification by stimulated emission of r	1968 Feb p 58–72
housing, population density, shantytowns, t regulation, urban planning, cities, control		laser, maser, coherent radiation, stimulated emission	
Salation, aroun planning, ettes, control	1965 Sept p 150-160	'optical masers'	i, ilist lasers as I June p 52–61 (274)
shantytowns, squatters, urban sociology, ho	ousing, 'barriadas' of Lima,	crystallography, light refraction, nonlinear optics,	light interactions.
Peru	1967 Oct p 21–29	ultraviolet radiation, photon	1964 Apr n 38-49
grazing, forestry, rangeland, agricultural res		holography, wave-front reconstruction, interferon	ietry, lensless laser
US Western states landslide, clay, quick clay, formation and prop	1970 Feb p 88–96 [1169]	photography 196	5 June p 24-35 [300]
and prop	1963 Nov p 132–142	communication technology, signal transmission, n transmission by laser 196	nultiplexing signal 56 Jan p 19-27 [302]
Langmuir trough, muscle contraction, artificia	al muscle, ATP,	chemical laser, infrared radiation, chemical pumpi	10 Jan p 15-21 [302]
actinomyosin, muscle relaxation	1952 Dec n 18–21	196	6 Apr p 32-39 (303)
language, infant speech, learning, communica		light-emitting diode, semiconductor, electron bear	n, junction diode,
consistencies in infant babble	1949 Sept p 22-24 [417]	solid-state lasers	1967 Mayn 108_122
speech, dialects, American languages, lingu speech	1950 Jan p 48-51	liquid lasers rare earth ions, solvation shell, chela of liquid, gas and solid-state lasers	te cage, comparison
humor, physics, jocular physics, broken En	glish tribute to Niels Bohr	spectroscopy, materials technology, color, photoel	1967 June p 80-90
	1956 Mar p 93-102	transparency, optical properties of materials	1967 Sent n 228 248
Polynesian culture, cultural evolution, tool	s, settlement of South Sea	holography, microscopy, white-light reconstructio	n. color holographs
Islands, origin of Polynesians	1956 Aug p 58-72		1968 Feb n 40 40
agnicultural production, poverty, education Peru, literacy, Cornell-Peru experiment i	n, economic development,	crystal structure, phase memory, photon echoes n	uclear-spin echo
	1957 Jan n 37–45	Communication technology subsections	1968 Apr p 32-40
Canary Islands, nonverbal communication	, whistling, phonology, the	communication technology, pulse-code modulatio Kerr effect Pockel's effect, polarization modulation	n, electron optics,
whistled language of La Gomera	1957 Apr p 111-118	iaser ngm	1060 Tunn 17 00
evolution, intelligence, learning, memory, i	magery, experimental	carbon dioxide, infrared radiation, nitrogen, gas la	iser, physics of
psychology, learning in man and animal artificial intelligence, Loglan, linguistics, 'l	s 1957 June p 140–150	caroon aloxide laser	10/0 4
	1960 June p 53-63	optical communication, holography, surveying, we technology	lding, light, laser
	. roo saite pros do	technology 1	1968 Sept p 140-156

carthquake prediction, strain gauge, interferomet	ry, Earth crust	latorols, soil structure, chernozems, podzols, tundra, alluvial soils
	1960 Dag = 00 0	agronomy, ecology of soil, soil erosion the soils of the world and
microsurgery, cell, physiology, laser lesions, cell o	rganelle	High Diabanant totals and a
computer graphics integrated pressure	Feb p 98-110 [1170	
computer graphics, integrated circuits, computer modeling, programs, logic of displays	technology, computer	metal whiskers 1960 July p 64-77
coated price ontine interference of displays	1970 June p 56-8	erystal structure, lattice dislocations observed 1961 Oct. p. 107-116
coated optics, optical interference coatings, light i	reflection, light	
transmission, dielectric mirrors, interferometry	1970 Dec p 58-75	dislocations, electron 'gas', nature of metals 1967 Sept p 90-100
carrier-wave generator, communication technolog	iv. orystal structure,	laughter, psychoanalysis, humor, psychiatry, psychosis Freudian
diode laser, licterostructure lasers, light-emittin solid-state electronics	g semiconductor,	interpretation of humor 1956 Feb p 31-35 [45]
gas separation, laser-light pressure, radiation press	1971 July p 32-40	and social conformity 1974 June p 52
scharation, 'optical bottle', atomic and moleculi	sure, isotope	Laurasia, continental drift, glaciation, Gondwanaland paleomagnetism,
opposition, opinear conte, aronne and molecul	ar neams	Glossopteris, sea-floor spreading, supercontinents, plate tectorics
communication technology, fiber optics, light pipe	1972 Feb p 62-71	
remaind decimalogy, noet optics, fight pipe	ingui-cinitung diode	
application to telecommunication	1973 Nov p 28-35	
state of the art	1960 Dec p 80	figure in the second se
in infrared	1962 Mar. p 70	
acoustic waves generated	1962 Dec p 72	
liquid, high energy	1964 Aug p 40 1966 Oct p 48	
acoustic holography, sound wayes, interference, ho	doctable source	Antoine Lavoisier 1956 May p 84-94
imaging, nondestructive testing, medical diagnos	weginpiny, acoustic	law code, Sumer, Lipit Ishiar, Hammurabi, cuneiform script, earliest lan code 1865 B C 1948 June p 44-47
E D' C'	1969 Oct p 36	Sumer, hieroglyphs, Ur-Nammu 1953 Jan p 26-28
exothermic carbon dioxide	1970 Feb p 44	archeology, Sumer, cunesform script, 3000 B C. to 1500 B C. Ur,
gas-dynamic laser	1970 July p 52	Nippur 1957 Oct p 70-83
semiconductor minilaser	1970 Oct p 54	law of large numbers, probability, gambler's fallacy, random walk
transmission by optical fiber	1972 Feb p 42	mathematical proof, philosophy of science 1950 Oct p 44-47
energy levels, helium-cadmium laser, helium-seleni	um laser, metal-gas	"Law of the Heart", Starling, cardiology, biography of Ernest Starling
nuxtures, metal-vapor lasers	1973 Feb p 88	1951 Oct p 50-01
isotope separation by laser	1974 Oct p 57	lan of the sea, UN Conference 1978 Apr p 78
see also organic lasers, solid-state lasers, gas laser a	and the like	lawn mower, random pattern most efficient 1969 Apr p 52
laser amplification, surface laser	1971 Nov p 49	lawrencium, 'synthetic' elements element 103 transuranium elements.
laser-excitation technique, isotope separation, light ab		high-flux isotope reactor, heavy-ion linear accelerator, penodic table
	Feb p 86-98 [354]	at 103 1963 Apr p 68-78
laser implosion, fusion reactor, nuclear power, nuclear		layered superconductors, BCS theory, crystal structure, electrical
thermonuclear reaction, plasma confinement		properties of metals, intermetallic compounds, intercalated crystal superconductors 1971 Nov p 22
laser lesions, microsurgery, laser, cell, physiology, cell	organelle	superconductors lead isotopes, isotope dating, radioisotope dating, strontium-rubidium
	eb p 98-110 [1170]	ratios, geological and paleontological time dated by radioactive
laser light, coherent radiation, interference, Brillouin s levels	68 Sept p 120-136	decay 1949 Aug p 48-
self-induced transparency	1967 June p 57	lead poisoning, chelation, hemochromatosis, pharmacology, drug action
laser light unmigulation, integrated circuits, light propa		Wilson's disease metal noisoning heavy metal poisoning bone
li' li., 'li' 'devices, optical circuits, pl		concer soliculates assum cancer therapt, chemotherapt, medical
	1974 Apr p 28-35	exploitation of chelates 1900 Ma) P
laser-light pressure, gas separation, laser, radiation pre	essure, isotope	anemia brain damage, environmental toruns, blood disorders kidnes
separation, 'optical bottle', atomic and molecular	beams	disorder, nerve disorders 1971 Feb p 13-23 (12)
	1972 Feb p 62-71	
laser mode-locking, Kerr gate, molecular motion, quan	tum mechanics	of waterfowl by spent birdshot pellets 1972 Sept P leadership, communication, social psychology, work patterns profiles.
Raman clock, ultrafast phenomena, picosecond m	1973 June p 42-60	people in groups 1951 Feb p 26-
laser-pulse fusion, fusion reactor, plasma physics, nucle		leef color anthogyanus chloroph il carotene numan synthesis of
laser-puise lusion, lusion reactor, plasma physics, nacio	1971 June p 21–33	aromatic compounds 1950 Oct p 40-
laser-pumped oscillator, optical parametric oscillator	1967 May p 56	tenformbution ecolors forest suppression trees
laser reflection. Apollo project, moon, orbital motion, i	unar-ranging	1975 May p 90-98 (132)
experiment, corner reflector, Earth-Moon distance	measurement	leaf-eating beetle, weed control insect herbivores, agricultural
1	970 Mar p 38-49	technology Klamath weed living herbicides 1957 July p 56-6 leaf scission, auxins apical bud 1955 Nov p 82-89 [116]
laser spectroscopy, Doppler effect, energy levels gas las	ser, spectroscopy	leaf scission, auxins apical bud 1955 Not p 82-67 111
, · · · · · · · · · · · · · · · · · · ·	973 Dec p 69-85	leaf shape, aging duckweed systemane study of familiar amateur observation 1949 Oct p 22-2
laseriess holograms, holography, white-light holograms	976 Oct p 80-95	leathonner acter vellous varies unfective to plant and toscol
to the standard of the standard of the	est transfer heat	1953 June p 18-01
latent heat, capillary action, heat pipes, vaporization, he	968 May p 38-46	learning thinking comparative psychology, thesis monkeys 'learning to
radiator latent viruses, slow virus infection, multiple sclerosis, m		think' 1949 Aug p 30-39 [712]
t	210 2011 D 20 20	infant speech language communication meaningful consistencies in
hadranophana structure gene expression, provinus vii	rus action	infant babble 1949 Sept p 22-24 [417]
		vision infant eye-hand coordination human eye 1950 Feb p 20-22 [401]
	p 102-113 [1347]	neurosis stress psychotherapt, experimental neuroses in cats
laterization, agricultural production equatorial rain fore	sts tropical	1950 Mar p 38-43 [443]
climate, developing countries, lateritic soil	p 96-102 [870]	vision experience sensors deprivation, 'arrested vision' role of
1 defaliation	i. Vietnam war	environment experience in normal development
bomb craters, cratering, ecological warfare, defoliation	y p 20-29 [1248]	ופטאן צו-10 ס נושל טכפו
t and anicanizatio	n, elastomers.	automaia theory feedback conditioned reflex 1951 Aug p 60-63
synthetic rubber, molecular structure 19.	56 Nov p 74-88	operant conditioning, pers babies how to teach animals 1951 Dec p 26-29 [423]
synthetic rubber, molecular structure lathes, Industrial Revolution industrial technology, dete	lopment of lathe	,
from Middle Ages	Apr p 132-142	

from Middle Ages

memory, brain, cerebral cortex, fundamental research, What is	aplysia, neurones, behavior, memory, synapse, heterosynaptic
memory? 1953 Sept p 118–126 [11]	facilitation, memory and learning at nerve-cell level 1970 July p 57-70 [1182]
fear, emotional development, comparative psychology, influence of	information retrieval, long-term memory, memory, short-term memory 1971 Aug p 82-90 [538]
early environment, experiments with dogs 1956 Jan p 38-42 [469] nerve regeneration, vision, visual perception, embryonic development,	brain development, environmental stimuli, memory, rats, sensory
inborn 'hard wiring' of nerve circuitry 1956 May p 48-52 [1090]	deprivation 1972 Feb p 22-29 [541]
psychology, spatial perception, innate behavior, perceptual learning,	animal behavior, developmental psychology, homing behavior, kittens,
innate vs acquired space perception 1956 July p 71-80 brain, neurophysiology, neuropsychology, pleasure centers,	suckling 1972 Dec p 18-25 [552] behavioral regression, child development, cognitive development,
hypothalamus, electrode stimulation of pleasure centers in rat brain	human behavior, infant perceptions 1976 Nov p 38-47 [572]
1956 Oct p 105–116 [30]	gobies learn and remember 1951 Apr p 38
bird song, animal communication, innate behavior, animal behavior 1956 Oct p 128-138 [145]	psychology, effect of delayed video feedback on maze solving 1961 Jan p 86
elephant, intelligence, vision, research in elephant learning	electrical activity in cerebral cortex 1967 July p 42
1957 Feb p 44-49	autonomic nervous system 1969 Apr p 49 brain-tissue implant in Tilapia 1969 May p 54
evolution, intelligence, memory, language, imagery, experimental psychology, learning in man and animals 1957 June p 140–150	learning behavior, comparative psychology, animal behavior, praine dogs,
color vision, conditioned behavior, behavioral psychology, Skinner	social behavior, territorial behavior, innate behavior, field
box, visual discrimination, pigeons conditioned to respond to discrete wavelengths of light 1958 Jan p 77-82 [403]	observation of praine dog communities 1959 Oct p 128–140 learning speed, number of brain cells 1955 June p 56
discrete wavelengths of light 1938 Jan p 1/-82 [403] imprinting, developmental psychology, animal behavior, effect of early	learning theory, information processing, memory, reason, rational
life on later learning 1958 Mar p 81–90 [416]	association as aid to memory 1956 Aug p 42–46 [419]
education, memory, experimental psychology, 'drill' in learning 1958 Aug p 68-72 [422]	glial cells, memory, neurones, RNA, brain, molecular theory of memory 1961 Dec p 62-70 [134]
electroencephalography, brain waves, sleep, conditioned behavior,	least-action principle, Maupertuis, natural history, geoid, life and work of
correlation of brain waves to behavior 1959 Aug p 89-96 stress, behavior disorders, animal behavior, stimulation in infancy	Pierre-Louis Moreau de Maupertuis 1955 Oct p 100–110 least-squares method, physical constants, measurement, velocity of light,
1960 May p 80–86 [436]	electron mass, particle charge, standards of measurement, Planck's
depth perception, vision, visual perception, innate and learned	constant, Rydberg constant 1970 Oct p 62–78 [337] lecithin, fatty acid synthesis, microsome, acetic acid, coenzyme A, lipids,
response to visual cues 1961 Mar p 138-148 visual perception, form perception, perception, innate or learned form	synthesis not breakdown in reverse 1960 Feb p 46–51
perception 1961 May p 66-72 [459]	alveoli, lung collapse, premature infants, breathing, surface tension,
retina, viston, visual perception, Gestalt psychology, stabilized retinal images, evidence for perceptual theories 1961 June p 72-78 [466]	surfactant, hyaline membrane disease, soaplike agents regulate surface tension in lungs 1962 Dec p 120-130
visual perception, Fechner's law, psychophysics, Skinner box,	lectins, agglutination response, cancer, cell membrane, immunology,
behavioral psychology, conditioned behavior, pigeon perception 1961 July p 113–122 [458]	proteins 1977 June p 108–119 [1360] lee waves, meteorology, wind, cloud, soaring, glider, esthetic exploitation
planarian, conditioned behavior, maze running, 'protopsychology',	of lee waves 1961 Mar p 124–134
evidence of learning in a primitive nervous system 1963 Feb p 54–62	leeches, spiders, spermatozoon transfer, sponges, sexual reproduction, bedbugs, unorthodox methods of sperm transfer
conditioned behavior, kinesthetic memory, behavioral psychology,	1956 Nov p 121–132
place-learning 1963 Oct p 116–122 [479]	neural organization, nerve cells, nerve physiology, nerve signals,
memory, forgetting, proactive and retroactive interference 1964 Mar p 91–99 [482]	nervous system, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287]
chimpanzee, symbolic language, operant conditioning, binary numbers,	left-hemisphere functions, brain hemispheres, cerebral dominance, music
animal behavior, chimpanzee learning arithmatic 1964 May p 98–106 [484]	perception, right-hemisphere functions, auditory perception visual perception 1973 Mar p 70-78 [554]
animal behavior, habitat selection, ecological adaptation, heredity, field	left-right asymmetry, bilateral symmetry, mirror images, central nervous
experiments with mice 1964 Oct p 109–116 [195] conditioned behavior, long-term memory, short-term memory,	system 1971 Mar p 96–104 [535] Legionnaires' disease, traced to airborne bacterium 1978 Feb p 80
lobotomy, octopus, touch, sensory perception, correlation of brain	legumes, nitrogen, biological nitrogen fixation, ammonia, nitrifiers,
structure and function in octopus 1965 Mar p 42–50 [1006] attention, physiological psychology, novelty, conflict, monotony,	deminifiers, mitrogen cycle 1953 Mar p 38-42 bactena, mitrogen cycle, mitrogen fixation, blue-green algae, Haber
conflict and arousal, aid to learning 1966 Aug p 82-87 [500]	process, biosphere nitrate, eutrophication
sensory perception, vision, touch, visual perception dominates touch 1967 May p 96–104 [507]	1970 Sept p 136-146 [1194] nitrogen fixation, agronomy, soybean products, plant protein
brain metabolism, memory, protein synthesis, goldfish, conditioned	1974 Feb. p. 14-21
behavior 1967 June p 115-122 [1077] forgetting, retroactive inhibition, proactive inhibition, recall,	agricultural economics, forage crops, grasses, agronomy, hay, livestock feed, ruminants, silage, Rhizobium bacteria 1976 Feb p 60-75
interference theory 1967 Oct p 117–124 [509]	algae, bacteria legumes, nitrogen fixation, nitrogenase, genetic
bilingualism, language, communication, reading, information processing 1968 Mar p 78–86	engincering, Haber process, rhizobium, symbiosis, nitrogenase,
animal behavior, cerebral cortex, striatum, bird nervous system, crows,	algae, bacteria, nitrogen fixation, nitrogenase, genetic engineering
pigeons, canaries, chickens 1968 June p 64-76 [515] holography, memory, brain function, interference patterns, monkey	Haber process, rhizobium, legumes, symbiosis, nitrogenase,
brain, holographic model, neurophysiology of remembering	biological nitrogen fixation 1977 Mar p 68-81 Leibnitz, mathematics, philosophy, calculus, symbolic logic, calculating
1969 Jan p 73-86 [520] thesus monkeys, social behavior, urban monkeys, urban and forest	machine, Leibnitz, biography 1968 May p. 04 100
monkeys in India 1060 tuly = 108_115 [523]	Leidenfrost phenomenon, antimatter, Zeeman effect, Klein theory, high- energy physics, cosmology, high-energy physics and cosmology
animal behavior, innate behavior, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165]	1967 Apr p 106 114 (2) 13
autonomic nervous system heart rate blood pressure gurare	leishmaniasis, Chaga's discase, public health, 'zoonoses', parasitism trypanosomiasis, malaria, filariasis plague, yellow fever, typhus,
electrocardiography, learning voluntary control of autonomic nervous system 1970 Jan p 30–39 [525]	epidemiology, animal intection and human disease
1370 July 15 55 (525)	lek behavior, animal behavior, courtship display, turkeys, pecking order,
	sexual behavior, Welder Wildlife Refuge 1971 June p 112–118
P as the	

Sage prouse sexual behavior patient at the	
sage grouse, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [139]	or state of the sold, range as symblotics in uchens
see also: arena behavior lemmings, animal behavior, population cycles, population control	forest communities, ecology, algae, food chain, nitrogen cycle, treetop
1974 line n 29 16 1100	cosystems 1973 June p. 74-80 [1274]
rengin standard, cestum clock, mass standard, time standard, tamparatur	life, heat, temperature range, heat and life 1954 Sept. p. 64-68 life cycle, virus, reproduction, bacteriophage, provirus
siandard, interferometry, measurement 1968 June p. 50-6	2 1064 Man - 24 27
lens aberrations, glass, optics, photographic lenses 1976 Aug. p. 72-8 lens design, camera, telescope, interferometry, computer graphics, image	
To mation, light 1968 Sent in OK 10	predation 1954 June p. 38-42
recommod, irietion, Coulomb, technology history, sliding surfaces,	life expectancy, aging death histogy of conscious 1048 June n 40.43
molecular conesion, coppering 1051 Feb p 54.5	probability of death, historic changes in average length of human life
projective geometry, Renaissance paintings, Durer, Desargue's theorem, Pascal's theorem, mathematics, projective geometry as	1950 Apr. p. 58-60
systematized by Poncelet and Klein 1955 Jan p. 80. e.	aging, rotifer, experiments in aging, age of mother 1953 Apr. p. 38-42 aging, death rate, disease etiology, male:female life expectancy
creativity, scientific revolution, Renaissance, philosophy of science	1958 Feb. p. 22-27
introduction to single-topic issue on innovation in science	aging, death rate, comparative life spans in man and other animals
1958 Sept. p. 58-65 bearing, friction, gears, technology history, Codex Madrid I	
1971 Fch. n. 100-110	aging, cell physiology, gerontology, manifestations of aging 1962 Jan. p. 100-110
Lepidoptera, entomology, photoperiodicity, insect diapause, hibernation	chronic illness, morbidity, mortality rates, medical care, vital statistics,
governed by photoperiodicity 1960 Feb. p. 108-118 leptons, charmonium, charmed quarks, high-energy physics, gauge	
theory, hadrons, quark hypothesis, 'color' and 'flavor' in quarks	1973 Sept. p. 76-84 life processes, living tissue, limits of dimension and mass, Jonathan Switt
1975 Oct. p. 38-50	was no biologist 1948 Nov. p. 52-53
baryons, high-energy physics, hadrons, mesons, quantum numbers, quark confinement, bag model, infrared-slavery model, string model	lift barrier, heat barrier, supersonic flight, aviation 1953 Dec. p. 80-84
1976 Nov. p. 48-60	animal behavior, bird flight, insect flight, mechanism, hovering flight
heavy leptons, tau particle, elementary particles, small light-particle	1975 Nov. p. 80-87 [1331]
family gains new member 1978 Mar. p. 50-57 [398] letters, reading, words, pattern recognition, visual cues in recognition of	A4 16
letters and words 1978 Jan. p. 122–130 [122]	Haukshee electric nower science history life and work of Francis
leukemia, atomic bomb test, radiation damage, ionizing radiation,	Hauksbee 1953 Aug. p. 64-69
immune response, fallout, nuclear medicine, radiation damage,	radiation pressure, sound-wave pressure, photophoresis, analogy and distinction, light- and sound-wave pressure 1957 June p. 99-108
whole-body irradiation 1959 Sept. p. 117-137 cancer, enzyme blood levels, myocardial infarction, hepatitis, cancer	distinction, light- and sound-wave pressure 1957 June p. 99-100 diffraction, wave-particle duality, optics, interference, electromagnitic
diagnosis, medical diagnosis, diagnosis by presence of abnormal	waves, photon emission, introduction to single-topic issue on light
enzymes 1961 Aug. p. 99–107	1968 Sept. p. 30-37
leukocyte, cancer, chemotherapy, virus, ionizing radiation, Down's syndrome, origin and treatment of lymphocytic and granulocytic	photoelectric effect, color, reflection, refraction, resonance absorption, photon, electron, interaction of light with matter
leukemia 1964 May p. 88-96	1968 Sept. p. 00-71
cancer virus, Rous sarcoma virus, cancer virus, RNA virus, 'Rous-	spectroscopy, Fraunhofer lines, prism, Fourier analysis, diffraction grating, Girard grid, interferometry 1968 Sept. p. 72-82
associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p. 46-52 [185]	comera lang design, telescone interferometry computer graphics,
asparaginase, cancer therapy 1968 Aug. p. 34-40	image formation 1968 Sept. p. 90-100
leukocyte, infection, phagocytosis, antibodies, 'the first line of defense'	vision, retina, photographic emulsion, vidicon, television camera, photochemistry, image detection, electronic camera
l951 Feb. p. 48-52 [51] blood plasma, blood fractionation, erythrocyte, platelets, centrifuge,	1968 Sept. p. 110-117
blood transfusion, blood banks 1954 Feb. p. 54-62	laser, optical communication, holography, surveying, welding, laser technology 1968 Sept. p. 140-156
fever, thermoregulation, homeostasis, hypothalamus, etiology of fever 1957 June p. 62-68	rision image processing visual percention imagery eye and brain in
antigens, immune response, antibodies, hypersensitivity, phagocytosis,	visual perception 1968 Sept. p. 204-214 1577
inflammatory response, allergy, thymus gland, lymphatic system,	light absorption, solar energy nigments, energy conversion, solar
cellular immunity 1964 Feb. p. 38-64 leukemia, cancer, chemotherapy, virus, ionizing radiation, Down's	collectors 1956 June p. 97~100
syndrome, origin and treatment of lymphocytic and granulocytic	chlorophyll, chloroplasi, electron transfer, photosynthesis 1974 Dec. p. 68-82 [1310]
leukemia 1964 May p. 88-96 nucleus, DNA, Miescher, spermatozoon nucleus, chromatin, hereditary	isotope separation, laser-excitation technique, quantum mechanics,
moterial discovery of DNA 1968 June D. 75-88 [1109]	uranium enrichment 1977 Feb. p. 80-95 [33-1
wound healing, regeneration, fibroblasts, collagen, epidermal cells 1969 June p. 40-50 [1144]	light amplification, photocell, photomultiplier, variable stars, stellar temperature, interstellar matter 1952 Mar. p. 56-59
fiberal arts colleges, scientists, science education, origins of U.S. John 15	radiation, see: laser
1951 July p. 15-17	1974 July p. 60-73 light-emitting diode, semiconductor, taser, electron beam, junction diode,
library cooperation, Research Libraries Group 1974 June p. 50	solid-state lasers 1967 May p. 108-122
ibrary science, computer technology, information storage, information retrieval, microrecording, electronic scanner, microfiche	integrated circuits, liquid crystals, Nixie tubes, numeric displays 1973 June p. 64-73
1900 Sept. p. 22 7 3 2	communication technology, laser, fiber optics, light pipe
printed-matter explosion quantities by hair human skin ecosystem	1973 Nov. p. 28-33
	digital transmission, diode laser, fiber optics, glass fiber cables, light- wave communication, pulse-code modulation, lightwave telephone
icensing, Atomic Energy Act, patent law, power, international	1977 Aug. p. 40–48 [373]
cooperation, military secrety, mentander 1954 Nov. p. 31-35	light-emitting semiconductor, carrier-wave generator, communication technology, crystal structure, diode laser, laser, heterostructure
inhane alone combinets filled described by point	theory collidative electronics 1971 July 0. 32-40
nature of lichens	light interactions, crystallography, laser, light refraction, nonlinear optics, ultraviolet radiation, photon 1964 Apr. p. 38-49
Antarctica, fauna, flora, blue-green aigue, econogy, p. 212-230 [865] terrestrial life	fill a forest transactions business

light-matter interaction, photochemistry, flash photolysis, ultraviolet	limited nuclear warfare, civil defense, arms race, fallout technology
light, photolysis, triplet state, photoreduction, photooxidation, dye	assessment, flexible-response strategy, limited nuclear war
1968 Sept p 158–170	1976 Nov p 27-37
light microscope, microscopy, scanning electron microscope, transmission	limits of dimension and mass, life processes, living tissue. Jonathan Swift
nght microscope, finctoscopy, scanning electron interescope, transmission	was no biologist 1948 Nov p 52-55
electron microscope, three demensional pictures by scanning	limnology, pond life, dissolved oxygen, plankton, thermocline,
	hypolimnion, oxidation-reduction balance in depths of a pond
light pen, cathode ray tube, computer technology, computer displays,	1951 Oct p 68–72
information theory, computer graphics, rand tablet, computer	· · · · · · · · · · · · · · · · · · ·
graphics and man-machine interface 1966 Sept p 86-96	limpets, escape response, manne invertebrates, starfish, scallop, prey-
light pipe, communication technology, laser, fiber optics, light-emitting	predator relationship, snail, chemical signals
diode 1973 Nov p 28–35	1972 July p 92–100 [1254]
light polarization, interstellar dust, interstellar gas, protostars	Limulus, horseshoe crab, vision, ommatidia, visual perception optic
1967 Oct p 106-114	nerve, horseshoe crab as laboratory animal 1956 Dec p 113-122
light pressure, solar system, Sun, cosmology, dust cloud hypothesis,	visual perception, ultraviolet receptor 1964 Apr p 62
gravity, gravitational collapse, thermonuclear reaction, genesis of	line structure, color television picture elements, field-scanning rate,
solar system 1948 May p 35-45	technology assessment, competing color television systems weighed
light propagation in thin films, integrated circuits, laser light	1950 Dec p 13–17
manipulation, thin-film optical devices, optical circuits, photons	Linear A script, Mycenaean civilization, Hebrew civilization, Linear B
instead of electrons in circuits 1974 Apr p 28–35	script, Minoan civilization, Crete, Semites, common origin of Greek
light reflection, fiber optics, wave guide, image transmission, physics of	and Hebrew civilizations 1965 Feb p 102-111
light conduction 1960 Nov p 72–81	linear accelerator, electron accelerator, traveling-wave accelerator,
coated optics, optical interference coatings, light transmission,	internal drift-tube accelerator 1954 Oct p 40-44 [234]
dielectric mirrors, laser, interferometry 1970 Dec p 58–75	electron accelerator, Stanford Linear Accelerator Center, klystron tube
	two-mile Stanford Linear Accelerator 1961 Nov p 49–57 [322]
light refraction, crystallography, laser, nonlinear optics, light interactions, ultraviolet radiation, photon 1964 Apr p 38–49	streamer chamber, track detectors, pulse generator, new particle
	detector 1967 Oct p 38–46
light scattering, photometry, molecular size, aerosol, hydrosol, Tyndall	
spectra, measurement 1953 Feb p 69–76	
molecular weight determination, polymers, viscometer, photometer,	Linear B script, Homer, Minoan language, Greek civilization cryptology,
how giant molecules are measured 1957 Sept p 90–97	an account of the decipherment 1954 May p 70–75
molecular weight determination, polymers, viscometer, photometer,	Greek civilization, Mycenaean civilization, Classical archeology, Pylos,
how guant molecules are measured 1957 Nov p 90–97	King Nestor's palace, 1200 B C 1958 May p 110–121
sunset, sunrise, green flash, green flash explained	My cenaean civilization, Hebrew civilization, Linear A script, Minoan
1960 Jan p 112-122	civilization, Crete, Semites, common origin of Greek and Hebrew
astrophysics, zodiacal light, zodiacal light and interplanetary dust	civilizations 1965 Feb p 102–111
1960 July p 54–63	Greek prehistory, Mycenaean civilization, origins of writing
light-string theory, dual-resonance model, high-energy physics, hadrons,	1972 Oct p 36–44 [681]
quark, strong interactions 1975 Feb p 61–67	code cracked 1954 Jan p 44
light-to-heat conversion, solar energy, photovoltaic conversion,	linear induction motor, electromagnetic flight, transportation, linear synchronous motor, 'magneplane' vehicle, magnetic levitation.
photosynthesis, limitations and prospects of solar power	
1950 Aug p 16–21	
light transmission, coated optics, optical interference coatings, light	linear programming, decision theory, mathematical model
reflection, dielectric mirrors, laser, interferometry 1970 Dec p 58–75	linear synchronous motor, electromagnetic flight, transportation, linear
light velocity, radiowave, phase velocity, plasma, free-electron density,	induction motor, 'magneplane' vehicle, magnetic levitation
'things that go faster than light' 1960 July p 142–152 light-wave communication, digital transmission, diode laser, fiber optics,	superconductors 1973 Oct p 17-25 linguistic material, image processing, memory, perception, visual memory,
	remembering what is seen 1970 May p 104–112 [528]
glass fiber cables, light-emitting diode, pulse-code modulation lightwave telephone 1977 Aug p 40-48 [373]	remembering what is seen 1970 May p 104-112 [528] linguistics, speech, language, dialects American languages, changes in
light waves, thin-film optical devices, interferometry, fluorescence, wave	
motion, monomolecular films, fatty acids 1970 Mar p 108–119	evolution of language information theory, a theory of natural selection
lighting, electric light, zinc sulfide, alternating current, technology of indoor lighting 1957 Aug p 40-47 [221]	in language 1952 Apr p 82–87
indoor lighting 1957 Aug p 40–47 [221]	computer translation, information theory 1956 Jan p 29–33
architecture, sunlight, solar radiation, building construction, glass	Indo-European language, comparative grammar, root words,
1968 Sept p 190-202 lightning, thundercloud, ionization physics of the lightning bolt	reconstructing genealogy of Indo-European languages
	1958 Oct p 63–74
1949 Feb p 22-27 Earth magnetic field, radio, ionosphere, 'w histlers', radio echoes of	pidgin, Creole, gullah, colonialism, grammar, evolution and
	elaboration of colonial languages 1959 Feb p 124–134
	artificial intelligence, language, Loglan, 'language of logic'
	1960 June p 53–63
	grammar, language organization, speech errors spoonerisms, syntactic rules
temperature 1961 Oct p 86 triggered with rockets 1967 Dec p 58	
thunder, classifying bolts by sound 1975 Jan p 49	Africa, Bantu language, Early Iron Age culture, language diffusion
superbolts 1977 Sept p 105	1977 Apr p 106–114
lignin, wood cellulose, cell structure, grain structure 1953 Jan p 64-67	lions, animal behavior symbiosis predator-prev relationship
cellulose, rayon forest products, crystal structure, polymers, paper,	Identification by which
polysaccharides, overview of natural polymer 1957 Sept p 156-168	identification by whisker-growth patterns 1970 Sept p 94
wood, paper aromatic compounds chemical identity of clusive liginin	lipid molecules, cell membrane, membrane proteins, membrane structure, active transport
1958 Oct p. 104-113	lipid-storage diseases comma delicera for a la l
forest products wood pulp, paper, cellulose rayon, waste recycling.	lipid-storage diseases, enzyme deficiency, fat metad him p 20–33 [1292] amniocentesis Tay Sachs disease, leader 101-bits genetic disease,
krait process 1974 Apr. p. 52–62	amniocentesis Tay-Sachs disease, lipids 10 lipid-storage diseases
Dibber liller	lipids, fatty acid synthesis microsome, acetic acid coenzyme A, lecithin
lignite beds, ur mium ore badiands of Dallotte 1051 Oct = 16 30	synthesis not breakdown in reverse 1960 Feb. p. 46-51
imestone, architecture, sculpture, erosion marble, atmospheric pollution	enzyme deficiency, fat metabolism, genetic disease a
weathering, preservation of stone 1978 June p 126–136 [3012]	Sachs disease lipid-storage diseases, 10 lipid-storage diseases
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	1973 Aug p 88–97

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	Truex to Topics
Lipit Ishtar, Sumer, law code, Hammurabi, cunciform script, earliest la	the state of the s
	A7
growth believes supercooling, nucleation, cryogenics, crystal	livestock feed agreentural appropriate 1975 June p 13-21
nama ery stats, soap bubbles, cholestene, smeetic, nematic	may, regumes, ruminants, silage, Rhizobium bacteria
display devices, dynamic scattering, storage mode, television receiver	lising matter elements accounts a survey
1970 Apr p 100-10 tntegrated circuits, light-emitting diode, Nixie tubes, numeric displays	sincon, tin, vanadium, list of elements essential to life lengthened to
liquid-drop model, atomic nucleus, shell model, optical model, high-	living tissue, life processes, limits of dimension and mass. Jonathan Smit
cherky physics, charge exchange, spin-orbit force recommen	was no diologist 1948 Nov n 52-55
particles, proton, neutron, structure of the nucleus	lizard, behavioral adaptation, 'cold-blooded' animals, pigmentation thermoregulation, reptile, behavioral thermoregulation
nuclear fission, heavy nuclei, neutron, uranium 235, shell model, fission	1959 Apr n 105-120
liquid clostropies (c.) 1965 Aug p 49-5	9 load-bearing wall, skyscrapers curtain wall highly construction
liquid electronics, 'solion' circuit elements 1957 Aug p 6 liquid fuel, rocket engine, reaction propulsion, regenerative motor,	0 1955 Mar p 44-48
technology lustory, status of the technology on eve of space age	loading, cargo handling, shipping, containerization, automatic control as transport 1968 Oct p 80-88
1949 May n. 30.3	lobotomy, conditioned behavior, learning, long-term memory, short term
liquid-fuel consumption, fossil fuel, petroleum reserves, coal reserves, energy consumption, shale, tar sands, coal liquefaction, the fuel	memory, octopus, touch, sensory perception, correlation of brain
problem 1949 Dec p 32-39	structure and function in octopus 1965 Mar p 42-50 [1006] lobsters, homing instinct 1950 Oct p 28
liquid helium, heat conducting properties 1956 June p 6. liquid hydrogen, bubble chamber, cloud chamber, superheated fluid	local clusters, supergalaxy, Milky Way, galactic clusters
1955 Feb n 46_50 1716	1954 July p 30-35 Andromeda Galaxy, galactic clusters, M81 cluster, Virgo cluster
figure fascrs, laser, rare-earth ions, solvation shell, chelaie cage.	1977 Nov p 76-98 [390]
comparison of liquid, gas and solid-state lasers 1967 June p 80-90 liquid-metal reactor, breeder reactor, nuclear power, fast neutron reactor,	
uranium cycle, thorium cycle, fission reactor, energy demand	suburbs, Northeast Corndor, regional planning 1965 Sept p 134-148
1970 Nov p 13-21 [339] liquid natural gas, natural gas, pipelines, tankers, storage, distribution of	lock-and-key theory, enzymes, catalysis, digestion, respiration, fermentation, science history 1948 Dec p 28-39
LNG 1967 Oct p 30–37	proteins, amino acids, peptide chain, alpha helix, enzyme catalysis, how
energy resources, fuel imports, technology assessment, risk estimation, tankers, LNG 1977 Apr n. 22-29	is a protein made? 1953 Sept p 100-106
liquid phase, superfluidity, helium 3, gas phase, solid state physics,	enzyme action, molecular structure, protein shape change, protein structure 1973 Oct p 52-64 [1280]
quantum effects, quantum fluids, phase transitions	antibodies, antigens, active site, immune response, immunoglobin,
1976 Dec p 56-71 liquid planets, Great Red Spot, Jovian moons, atmospheric circulation,	Bence-Jones proteins, Fab fragments, Fc unit 1977 Jan p 50-59 [1350]
Jupiter, solar system 1975 Sept p 118–126	locomotion, badger, dog, horse, cheetah, deer, comparative anatomy,
liquid state, crystal structure, metals, X-ray diffraction, physics of metals in the liquid state 1969 July p 72-82	running, how animals run 1960 May p 148-157 walking, primates, human evolution, bipedal walking, muscle, bone,
liquid structure, five-fold symmetry, polyhedral-hole model, geometrical	fossil record, origin of human walking 1967 Apr p 56-66 [10/0]
arrangement of molecules in a liquid 1960 Aug p 124-134 [267] liquids, boiling, heat transfer, nuclear boiling, transition boiling, film	animal behavior, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82-96 [1160]
boiling 1954 June p 64-68	nervous system, walking, Edweard Muybridge photographs, control of
cavitation, droplet-levitation technique, negative-pressure concept, tensile strength, surface tension 1972 Dec p 58-71	walking 1976 Dec p 72-86 [1346] locust, aerodynamics, insect flight, wind tunnel, efficiency of locust flight
tensile strength, surface tension 1972 Dec p 58-71 liquified hydrogen, energy resources, hydrogen, electrolyzer technology,	1956 Mar p 110-124
hydrogen energy economy, cryogenic storage, fuel cell	muscle contraction, insect flight, flight control system, nerve network, inhibitory impulse 1968 May p 83-90
1973 Jan p 13-21 Riteracy, agricultural production, poverty, education, economic	insect behavior, animal navigation, nervous system, insect flight,
development, language, Peru, Cornell-Peru experiment in economic	response to stimuli, schistocerca gregaria 1971 Aug p 74-81 [1231]
development 1957 Jan p 37-45 lithiasis, crystal structure, kidney calculi, X-ray diffraction, bladder	long, computer technology, digital computer, analogue computer, relay
stones, gallstones, urnary calculi 1968 Dec p 104-111	computers, binary arithmetic, automatic control, computer memory.
lithium, tritium, cosmic radiation, nuclear reactor, radioisotope, tracer chemistry 1954 Apr p 38-40	control systems, status of 'mathematical machines' 1949 Apr p 28-39
catalysis, polymerization, stereoisomers, promotion of polymerization	mathematics, set theory, paradox, non-Euclidian space, non-
by hithium 1963 Jan p 88-102 interstellar matter, stellar formation, variable stars, infrared radiation.	commutative algebra, Hilbert spaces, science, mathematics 1900- 1950, undecidable questions 1950 Sept p 40-42
voungest stars? 1967 Aug p 30	mathematics, Carroll, Dodgson, 'Alice in Wonderland', Lewis Carroll (Charles Luiwidge Dodgson), biography 1956 Apr p 116-128
lithosphere, artificial diamonds, ultra-high pressure, coesite, borazon, properties of matter under 2 × 106 p s 1 1959 Nov p 61-67	Godel's proof, mathematics, paradox, philosophy of science
behar pharic cycle, atmosphere. Farth crust, geochemical cycle, hydrologic	undecidable problems in axioms of arithmetic 1956 June p 71-86 antinomy, paradox, mathematical logic, barber paradox, undecidable
cycle 1974 June p 72–79 [414] lithospheric subduction, earthquake zones, island arcs, mountain	questions, Godel's proof, Grelling's paradox, Epimenides' paradox,
formation plate tectorics, sea-floor spreading, subduction zones,	Zeno's paradox, paradox and foundations of logic 1962 Apr p 84-96
volcanic zones 1975 Nov p 88–98 [919] volcanic zones Inver function, metabolism, alcohol tolerance, drug abuse, acetaldehyde	games theory, computer theory, algorithms, problem solving Turing
1752 2000 p = 2-2-	machine 1965 Nov p 98-106 grammar, truth, philosophy, sentence metalogic, mathematical proof.
chemotherapy, drug effects, pharmacology, vaccine, hormone,	antemony of the har, proof and truth 1969 June p 63-77
antiolotics, incincar care, nervous and inactivation, enzyme,	confirmation theory, hypothesis-testing inductive proof, philosophy of science, probability 1973 May p 75-83
metabolism of drugs, circhosis	logic circuits, binary arithmetic, computer technology, integrated circuits switching elements, computer memory, microelectronics, hardware
alcoholism, alcohol metabolism, larty liver, matthews, alcoholism, alcoholism, alcoholism, alcoholism, larty liver, matthews, larty liver, l	Switching elements, computer memory, microsisconnics, materiale

	966 Sept p 74-85	'secrets betrayed' at Great Falls	1950 Jan p 27
computer memory, integrated circuits, metal-oxide se	emiconductors,	forensic psychiatry, testimony at Hiss trial	1950 Mar p 29
microelectronics, large-scale integrated circuits, tra	ansistor	visa policy, scientists denied U S visas	1952 Mar p 35
	1970 Feb p 22–31	'Security, Loyalty and Science', award to Walter Ge	
logic elements, binary arithmetic, Boolean logic, integra	ated circuits, large-	1 11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1952 June p 36
scale integrated circuits, microelectronics 1977 Se	pt p 82–106 [376]	visa policy, visa-troubled psychologists	1952 July p 36
logic gates, fluid dynamics, amplifiers, switching, Coan	ida effect	visa policy, visa to Pauling	1952 Sept p 72 1953 Mar p 47
	1964 Dec p 80-88	visa policy, meetings go abroad	1955 Mar p 47
integrated circuits, metal-oxide semiconductors, mic	roelectronics,	McCarthy on stage fear of McCarthy	1954 Apr p 44
	Sept p 70–81 [375]	'Oppenheimer case', A E C, leaks from Oppenheim	
logic machine, Stanhope demonstrator, Boolean algebr	1952 Mar p 68-73	Oppenheimer case, it is of feats from oppenheim	1954 June p 44
syllogisms Logian, artificial intelligence, language, linguistics, 'lar		'Oppenheimer case', A E C, Oppenheimer a securit	
Logian, artificial intelligence, language, iniguistics, lan	1960 June p 53-63	Opposition and the property of	1954 July p 42
London plane, city trees, pollution effects, tree cloning		'Oppenheimer case', A E C, Oppenheimer verdict s	
Norway maple 19	76 Nov p 110–118	, , , , , , , , , , , , , , , , , , , ,	1954 Aug p 36
long-range forces, ionic bonds, covalent bonds, hydrog		scientists quit government over procedures	1954 Sept p 70
Waals force, chemical bond, antigen-antibody rea	ction, proposed	'Condon case', Condon's multiple jeopardy	1955 Feb p 54
intermolecular long-range force	1948 Oct p 14-17	· 'Oppenheimer case', A E C, boycott of Oppenheim	
Scotch verdict	1950 Mar. p 28		1955 May p 54
long-term memory, conditioned behavior, learning, sho	ort-term memory,	visa policy, courts compel visas	1955 Sept p 72
lobotomy, octopus, touch, sensory perception, con	rrelation of brain	science funding, eligibility and political attitudes of	rederal grantees
	Mar p 42-50 [1006]	- 1 A - 1	1956 May p 54
digit recall, short-term memory, memory, tachistoso	cope	political views 'no obstacle' to research funding	1956 Oct p 67
	July p 90-95 [499]	NSF, Yellin case 'In lieu of ability'	1961 Aug p 61
information retrieval, learning, memory, short-term	memory	LSD: Lysergic acid diethylamide LSD, ergot, psychosis, psychoanalysis, experimental p	nevehoree
longer to the second control of the second c	Aug p 82-90 [538]	LSB, ergot, psychosis, psychoanarysis, experimentar p	1955 June p 34–39
longevity, aging, gerontology, senility, medical care age of the mother	1950 Sept p 48	auxins, serotonin, comparative physiology, neuroph	
loop growth, crystal growth, spiral growth, screw dislo		physiological function of serotonin	1957 Dec p 52-56
toop growing crystat growing spiral growing seron asset	1955 Mar p 74-80	alkaloids, plant physiology, morphine, strychnine, "	
loose-snow avalanche, snow, avalanche, slab avalanch		physostigmine, caffeine, confine, quinine, cocaine	
	1954 Jan p 26-31	toxins in plant physiology 1959 Jul	ly p 113-121 [1087]
Lorentz force, artificial satellite, geomagnetism, magn	etosphere, solar	alkaloids, hallucinogens, mental health, drug addict	
radiation, Van Allen belts, radiation belts, aurora	a, physics of Van	alteration, psychosis, psilocybin, mescaline, effec	
Allen belts	1963 May p 84-96		Apr p 29-37 [483]
Lorentz tranformation, ether drift, Fitzgerald contract	tion, Maxwell's	lubrication, friction, stick-slip friction, bearing, violin	
equations, relativity theory, life and work of G I	Fitzgerald		956 May p 109–118
Loronto transfermentina Transcer reletivator child don	1953 Nov p 93-98	bearing, friction, mechanical engineering, sliding, re contactless bearings	
Lorentz transformation, Einstein, relativity, child devive view of reality	1957 Mar p 46-51	Beilby layer, ferrograph analysis, friction, machine	1966 Mar p 60-71
lost-way casting, metallurgy, New World archeology,		particles of wear, wear	1974 May p 88–97
archeology, Old Copper culture, Peru, copper, go	old, metalwork, pre-	bearing, friction, journal bearing, wear	1975 July p 50–64
Columbian, New World, 4,000 B C	1966 Apr p 72-81	luciferase, bioluminescence, glow worm, firefly, abyss	al fish, 'cold light'
loudness variations, hearing, musical dynamics, music	cal instruments,		1948 May p 46-49
muscial notation, musician performance	1974 Nov p 78–95	bioluminescence, firefly, insect behavior, insect phy	siology, luciferin,
lovebird, animal behavior, evolution, innate behavior		chemotaxis, biochemistry of bioluminescence	
interspecies differentiation of behavior	1962 Jan p 88-98	1962	Dec. p 76-89 [141]
low-energy radiowaves, cosmology, universe expansion		luciferin, bioluminescence, firefly, insect behavior, ins	ect physiology,
background radiation, 'big bang' theory, isotrop helium abundance, 'big bang' theory and cosmic		luciferase, chemotaxis, biochemistry of biolumine	
radiation	1967 June p 28–37	Lucretius, atomic theory, Greek science, Renaissance	Dec p 76-89 [141]
low-grade ores, iron ore, mining, ore beneficiation, he		history, Boscovich, forces between atoms	970 May p 116–122
•	1968 Jan p 28-35	lugworm, Annelida, feather duster worm, biological cl	ock, circadian
low-potential energy, energy resources, solar energy,	residential heating,	rhythm, marine worm	959 June p 132–142
windows, hot water, Sun can supply most of the		lumbar vertebrae, bipedal walking, human evolution,	pelvis, lower-back
cncrgy consumed in domestic heating	1951 Feb p 60-65	pain, 'scars of human evolution' 1951	Dec p 54-57 [632]
low temperature, hot springs, adaptation, high temperature	crature, glaciation	luminiferous ether, ether drift, special relativity, speed	of light,
low-temperature physics, cryogenic technology, heliu	1949 Feb p 46–49	interferometry, Michelson-Morley ether-drift exp	eriment
	9 June p 30-39 [206]	luminosity, flame chemistry, chemical kinetics, flash ti	064 Nov p 107-114
superfluidity, helium 1, helium 2, seond sound qu	antum mechanics.	velocity, spectroscopy	1053 May = 20, 26
liquid helium properties 195	8 June p 30-35 [224]	lunar evolution, Apollo project, lunar magnetism, mag	1953 May p 29–35
superconductivity, critical field strength, supercor	iductive motor,	moon, space exploration	1971 Aug p 62–73
fluxtrap, superconductive bearing, superconduc		Apollo project, lunar rocks, space exploration	1971 Oct p 48 58
applications of superconductivity molecular magnet coolers	1960 Mar p 74–82	lunar rocks, moon, solar system. Apollo missions 1	975 Sept n 92_102
lower-back pain, bipedal walking, human evolution,	1957 Scpt p 110	iunar exploration, moon, space exploration, lunar surf	ace, spacecraft
pelvis, 'scars of human evolution' 195	11 Dec n 54_57 [632]	design Ranger missions	1966 Ian n 52 67
lowest temperature, 006 degrees absolute at Leyden	1949 Jan n 28	moon surface, spacecraft, lunar geology, cratering,	structure, history,
loyalty and security, McCarthy, U.S. Army, Fort Mc	onmouth Scientists'	origin of moon from nine spacecraft visitations moon, lunar landing sites, manned space flight, rem	1967 Mar p 60–74
Committee on Loyalty and Security, report on	Signal Corps	1960	Oct p 54 73 faces
rudinecting raporatory	1954 June p 29-31	Apono 11 landing and Manner 6	Oct p 54-72 [889] 1969 Scpt p 88
A E.C., clearance procedures scientists' 'loyalty problem' committee	1948 Sept p 28	magnetometer, seismometer	1070 7 40
clearance with 1 ederal science funding	1948 Nov p 24	lunar geology, moon, satellite, stratigraphy cratering	lunar time scale
A AAS protests I ederal procedures	1949 Aug p 25 1949 Oct p 27	Ranger photographs	1964 Dec p 38-47
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moon surface, spacecraft, cratering, lunar exploration, structure,	him announced to the second
mistory, origin of moon from nine spacecraft visitations	lying, anxiety, polygraph, psychosomatic illness, guilt, breathing pulse rate, skin temperature, 'lie detector' mis-named
main gravitation, atmospheric tides, solar provintion, 1054 Marin, 26, 2	1707 Jan p 25-51 (50)
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minimum diminiescence, moon, solar radiation. Kenler crater, color flares	
metcornes, impact of solar protons?	lymph nodes, lymphatic system, intercellular fluid, lymph vessels, lymph
meteoritic debris(?)	6 had a state of the state of t
imui imgictism, Apollo project, lunar evolution, magnetometers on	lymph vessels, lymphatic system, intercellular fluid, lymph nodes, lymph
1100n, space exploration 1071 Aug = 62.7	ducts, Starlings' hypothesis, lymphatic circulation, lymphedema the
runni occurration, red shift, radio galaxies, synchrotron radiation, radio	body's 'second circulation' 1063 June n 80-90
astronomy, quasars found to be extra-galactic 1963 Dec p. 54-6.	lymphatic circulation, lymphatic system, intercellular fluid, lymph nodes,
gravity constant, interplanciary radar-ranging, lunar orbit, relativity theory, evidence for decrease of gravitational constant	lymph vessels, lymph ducts, Starlings' hypothesis, lymphedema, the
	body's 'second circulation' 1963 June p 80-90
lunar orbit, day's length, Earth-Moon system, moon, tides	b t
1972 Apr. p 42–52	ducts, Starlings' hypothesis, lymphatic circulation, lymphedema the
gravity constant, interplanetary radar-ranging, lunar occultation	1) to same fire
relativity theory, evidence for decrease of gravitational constant	antibodics, thy mus, immune system, lymphocytes, thymus implant in mouse, humoral factor 1964 July p 66-77
1976 Fcb. p. 44-52	antibody molecule, antigens, B-cells, immune system, lymphocytes, T-
lunar-ranging experiment, Apollo project, laser reflection, moon, orbital	cells 1973 July p 52-60 [1276]
motion, corner reflector, Earth-Moon distance measurement	lymphedema, lymphatic system, intercellular fluid, lymph nodes, lymph
1970 Mar. p. 38-49	vessels, lymph ducts. Starlings' hypothesis, lymphatic circulation, the
lunar rocks, Apollo project, lunar evolution, space exploration	body's 'second circulation' 1963 June p 80-30
lunar evolution, moon, solar system, Apollo missions	
1975 Sept p. 92–102	autoimmune disease, 1962 Nov. p 50-57 [138]
lunar soil, Apollo project, moon, meteorites, regolith, structure and	antibodies, thymus, lymphatic system, immune system, thymus implant
history of moon 1970 Aug. p. 14-23	in mouse, humoral factor 1964 July p 66-77
lunar surface, lunar exploration, moon, space exploration, spacecraft	antibody production, antigen-antibody reaction, RNA synthesis.
design, Ranger missions 1966 Jan p. 52-67	ammune response cloud selection theory
moon, telemetry, space exploration, high-resolution photography,	1964 Dec p 106-115 [199]
Lunar Orbiter space missions 1968 May p 58-78	automatic cell sorting. blood cell analysis, computer analysis, pattern
Ranger 7 photographs 1964 Sept. p 80	recognition, automatic analysis of white cells 1970 Nov p 72-82
Luna 9 photographs 1966 Mar p 56 Surveyor III radiation analysis 1967 Nov. p. 52	antibodies, antigen complement, immune response, virus antigens,
Surveyor III radiation analysis 1967 Nov. p. 52 lunar surface material, Apollo 11 and 12 samples compared	virus disease, autoimmune disease, allergic reaction, immune- complex disease, glomerulonephritis, lymphocytic chonomeningitis,
1970 May p 56	serum sickness 1973 Jan p 22–31 [1203]
lunar tide, Earth, ionospheric winds, the ionosphere	cell culture cell differentiation, cell-surface antigens, immune response,
1955 Sept. p 126–138	immunoglobin 1973 June p 82-91 [1279]
lung, human physiology, breathing, alveoli, mechanism of breathing	antibody molecule, antigens, B-cells, immune system, lymphatic
1960 Jan p 138–148	system, T-cells 1973 July p 52-60 [1276]
neonatal physiology, breathing, respiration, first breath of newborn 1963 Oct p. 27-38	antibodies, antigens, allergic reaction, immune response, anaphylactic shock, immunology 1973 Nov. p. 54-66 [1283]
gas exchange, thorax, pulmonary ventilation, breathing, alveoli, human	antibodies bures call differentiation bumoral immunity, B-cells, 1"
physiology, vital capacity, mechanics and physiology of breathing,	cells, immune system, thymus 1974 Nov p 38-72 [136]
anatomy of lung 1966 Feb p 56-68 [1034]	and the dear well manufacture histogrammatchility antigens immilie
gill, oxygen transfer, carbon dioxide, gas exchange, water-breathing by	response, immunoglobin, B-cells, T-cells 1976 May p 30-39 [1338]
mammals, breathing, animal experiments in water-breathing	Lysenko, genetics, polato virus, virus disease, vernanzanta de la Alago
1968 Aug. p 66-74 [1123]	receives Stalin Prize 1949 May p 20
acute respiratory failure, intensive care, tracheostomy, alveolar collapse, emphysema, pathogenesis and treatment of acute	heavening of the end
respiratory failure 1969 Nov p 23-29	Lyschko eclipsed, hybrid corn planted in USSR 1956 June p
fetal lungs, infant, hyaline membrane disease, surfactant	La senko off nedestal. Einstein on in U.S.S.R. 1954 Sept. p. 62
1973 Apr p 74–85	Lysenko resurgent, USSR, geneticists barred from international 1958 Nov p 60
lung cancer, carcinogenesis, cigarette smoking, tobacco, human	meeting Lisenkoism, Lamarck, acquired characteristics, genotype, evolution.
physiology, coronary disease, effects of smoking 1962 July p 39-51	phenotype, mutation, ostrich calluses, speciation, religion,
lung collapse, alveoli, premature infants, lecithin, breathing, surface tension, surfactant, hyaline membrane disease, soaplike agents	orthodoxy Dominism experiments in acquired characteristics
regulate surface tension in lungs 1962 Dec p 120-130	1953 Dec p 32"
lung structure, ayıan respiratory system, breathing, bird bones	Lysergic acid diethylamide, see LSD
1971 Dec p 12-19 [1230]	hsine, corn, plant breeding, plant protein, agronomy, human nutrition, malnutrition, high-hysine corn 1971 Aug p 34-42 [1229]
lungfish, evolution, air-breathing fishes, Devonian period, fish	corn oneque 2 bigine rich corn
physiology, conquest of land-breathing organs 1968 Oct p 102-111 [1125]	lysis, autolysis, lysosomes, enzymes, phagocytosis, chromosome breakage.
1908 Oct p 102-111 [1125]	lucacama immiration in disease nioresses
Lurgi process, coal gasification, energy resources, gasification processes, Hygas process, synthane process, CO ₂ acceptor process, coal	1967 NOV p 02-12 (1002)
1974 Wai p 19-23	lysosomes, autolysis, enzymes, phagocytosis, pinocytosis, metamorphosis, cellular digestive organ, suicide bag 1963 May p 64-72 [156]
hormone hormone hypothalamic hormone, neuronumorai	cellular digestive organ, 'suicide bag' 1963 May p 64-72 [150] autolysis, enzymes, phagocytosis, lysis, chromosome breakage,
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1914 NOT D 47 22 (****)	
Lydian civilization, archeological excavation. Croesus, Sardis, 6th century 1961 June p 124-135	lysozyme, bacterial-cell wall, homeostasts, bacterial cytoplasm,
BC. Charles Lyell, biography	protoplasts, bacteriopnage, tiagena, dis control 1960 lune p. 132-142
Lyell, evolution, science history, geology, 5111111111111111111111111111111111111	Bearing

X-ray crystallography, enzyme-substrate	complex, prote	ein folding,
amino-acid sequence, three-dimension	al structure an	d action of
lysozyme	1966 Nov	p 78–90 [1055]
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181 cluster, Andromeda Galaxy, galactic clusters, loca	l clusters, Virgo
	lov p 76–98 [390]
Macedonia, Nea Nikomedeia, Neolithic village, clay fig	urines, domestic
animals, agricultural society, oldest Neolithic site i	п Europe 1965 Apr р 82–92
Greek civilization, Hellenic art, Pella, mosaic, capital	of Macedonia
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Mach bands, contour perception, contrast perception, r	
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Mach cones, shock waves, shadow photography, speed	of sound,
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machine communication, communication technology, c	ybernetics,
information theory, language, communication, int	roduction to
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machine tool, automatic control, batch process, digital-	to-analogue
conversion, numerical instructions, automatic ma	
	52 Sept p 101–114
automatic control, computer applications, parts mar	1975 Feb p 22-29
process production methods ultraprecision positioner and shaper	1968 Oct p 62
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	1974 May p 88-97
MacKenzie river, New World archeology, Bering land	
migration, 'How man came to North America'	1951 Jan p 11–15
mackerel shark, heat exchange, rete mirabile, thermore	egulation,
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	eb p 36-44 [1266]
macroscopic quantum effects, quantum mechanics, sup	bernulally nemail,
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maggot, bacteria, flies, epidemiology, dysentery, virolo	
bg., electrical, mod, epidemidelogy, electrical, electrical	1965 July p 92-99
magic, anthropology, medicine, alkaloids, psychoactiv	e drugs, hypnosis
	1948 Sept p 24-27
'magic numbers', atomic nucleus, shell model, spin-or	
of isotopes	1951 Mar p 22–26
magic squares, number theory, binary arithmetic, prince composite numbers	1951 July p 52–55
'magneplane' vehicle, electromagnetic flight, transport	tation linear
induction motor, linear synchronous motor, mag	
Superconductors	1973 Oct p 17-25
magnesium, trace elements, iron, manganese, zinc, coj	pper, iodine, human
nutrition	1953 Jan p 22–25
cvidence for its importance as trace element in diet	
magnet, alignment of magnetic domains magnetic bands, ocean floor, sea-floor spreading lava	1957 Jan p 62
	ept p 126–142 [883]
magnetic bottle, plasma physics, plasma confinement	
magnetically confined plasmas	1957 Oct p 87–94
fusion reactor, nuclear power, plasma confinement	, deutenum, tritium,
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clectromagnetism, superconductivity, shaped field,	materials
technology, development and applications of sup	permagnets 2 June p 60–67 [279]
nuclear power, fusion reactor, plasma confinement	magnetic shear
plasma physics	1966 Dcc p 21–31
magnetic field, plasma instability, thermonuclear r	caction, fusion
teactor, anomalous diffusion, nuclear power, lea	kage of plasma
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magnetic-bubble memories
magnetic core, oxide semiconductors, integrated circuits, computer
     memory, microelectronics, advent of integrated-circuit
                                                      1967 July p 18-31
     semiconductor memories
magnetic domains, magnetism, iron, cobalt, ferrites
                                                      1955 Jan p 68-73
  electron spin, materials technology, ferromagnetism, hysteresis,
                                                   1967 Sept p 222-234
     magnetic properties of materials
  cobalt-rare earth alloys, magnetism, permanent magnets, anisotropy,
                                                    1970 Dec p 92-100
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  computer memory, magnetic-bubble memories
                                                     1971 June p 78-90
magnetic drum, computer memory, ferroelectric crystal memory, ferrite
                                                    1955 June p 92-100
     cores mercury delay line, magnetic tape
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     Milky Way, particle acceleration, supernovae fundamental research,
     where do cosmic rays come from?
                                                1953 Sept p 64-70 [239]
  electromagnetism magnetism, force-free windings, million gauss field
                                                      1958 Feb p 28-33
   solar magnetism, Zeeman effect, sunspots, mapping changes in solar
                                                      1960 Feb p 52-62
     magnetic field
   Earth core, electromagnetic waves, micropulsations, Earth mantle,
                                                   1962 Mar p 128-137
     longest electromagnetic wave
   Jupiter, Van Allen belts, radio emissions, origin of Jovian radio waves
                                                      1964 July p 34-42
   magnetic resonance, atomic structure, high pressure, electric field of
     atom, behavior of atoms under high pressure
                                                   1965 Jan p 102-108
   magnetism, superconductors, Bitter solenoid, U.S. National Magnet
                                                      1965 Apr p 66-78
     Laboratory
   superconductors, Meissner effect, quantum mechanics, magnetic
     impermeability, quantized vortexes, quantum effects in
                                                      1965 Oct p 57-67
     superconductors
   solar magnetism, Sun cycle, photosphere, chromosphere, solar
     atmosphere, 11-year solar cycle explained
                                                     1966 Nov p 54-62
   volcanic rocks, paleomagnetism, geomagnetic reversals, sea-floor
      spreading, reversals of Earth's magnetic field
                                                      1967 Feb p 44-54
   plasma instability, thermonuclear reaction, fusion reactor, magnetic
     bottle, anomalous diffusion, nuclear power, leakage of plasma
                                                      1967 July p 76-88
   Sun, solar atmosphere, sunspots, rotation, eddies, solar atmospheric
     circulation
                                                    1968 Jan p 100-113
   interstellar gas radio 'photographs', Doppler shift, structured in shells
     and filaments rather than clouds
                                                1978 Jan p 74-84 [394]
   intense continuous and pulsed fields
                                                          1965 Jan p 50
 magnetic flotation, ultracentrifuge, angular momentum, ultra-high speed
      rotation, molecular weight determination, 90 million r p s
                                                   1961 Apr p 134-147
 magnetic impermeability, superconductors, Meissner effect, quantum
      mechanics, magnetic field, quantized vortexes, quantum effects in
      superconductors
                                                      1965 Oct p 57-67
 magnetic levitation, electromagnetic flight, transportation, linear
      induction motor, linear synchronous motor, 'magneplane' vehicle,
      superconductors
                                                      1973 Oct p 17-25
   applied to metallurgy
                                                         1952 July p 36
 magnetic moment, antimatter, g factor, electron, electron spin, positron,
      magnetic bottle
                                                      1968 Jan p 72-85
 magnetic monopoles, elementary particles, electromagnetic radiation,
      particle accelerator, search for elementary particle of magnetism
                                                   1963 Dec p 122-131
                                                         1975 Oct p 52
    observation reported
 magnetic pumping, fusion reactor, nuclear power, magnetic bottle, plasma
      confinement, deuterium, tritium, stellerator
                                                      1958 Oct p 28-35
 magnetic resonance, nuclear magnetic resonance, spectroscopy,
      magnetometer, molecular structure, large molecule spectroscopy
                                                1958 Aug. p 58-66 [233]
    atomic structure, high pressure, magnetic field, electric field of atom
      behavior of atoms under high pressure
                                                    1965 Jan p 102-108
 magnetic reversals, Earth geomagnetism remanent magnetism,
      wandering poles, Earth's magnetism
                                                   1955 Scpt p 152-162
    ocean floor, geomagnetism magnetometer, patterned magnetic field
      variations in the ocean floor
                                                   1961 Oct p 146-156
    comet, geomagnetism, tektites meteorites, meteoritic impacts
                                                      1967 July p 32-38
    continental drift, sea-floor spreading, crustal movement, earthquakes,
      plate tectonics
                                                1968 Dec p 60-70 [875]
    sea-floor spreading, continental drift, ocean ridges, origin of oceans
                                                1969 Sept p 66-75 [888]
    cosmic collision
                                                         1967 June p 52
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magnetic separation, lugh-gradient magnetic separation, kaolin	
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magnetic storms, aurora, sunspots, cone of avoidance solar und	of the state of th
rotation, corpuscular streams, eyeles in 'solar wind'	radiation, Van Allen belts, radiation belts, aurora, physics of Van Allen belts
Sun radio emissions currents are 1955 Feb p 40-4	artificial satellite, geomagnetism, solar wind, aurora, magnetometer,
Sun, radio emissions, sunspots, eorpuseular streams	Orbital motion 1965 Mar p 58-65
magnetie suspension, ultracentrifuge, molecular weight, sedimentation,	aurora borealis, geomagnetism, solar radiation, tonosphere, solar wind
fractionation, oil drive, air drive, 900,000 g, 60 million r p m	physics of the aurora 1965 Dec p 54-62
1951 tung n 47 s	Interplanetary space, Mars, Mariner 4, micrometeorites, trapped radiation, atmosphere, solar wind, cosmie radiation, space
magnetie tape, computer memory, ferroelectric crystal memory, ferrite cores, mereury delay line, magnetie drum 1955 June p 92-10	exploration 1066 May n 62-73
corres, mereury delay line, magnetie drum 1955 June p 92-10 communication technology, computer, magneto-optical recording,	plasma, solar radiation, ionosphere, Earth magnetic field,
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magnetism, magnetic domains, iron, cobalt, ferrites 1971 Mar p 74-84 1955 Jan p 68-73	1975 Sept p 160-173
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temperature of superconductivity 1957 Nov n 92_103 (227)	semimetal, solid-state refingeration 1964 June p 70-82 magnetron, microwaves, optical properties, Maxwell's equations,
electromagnetism, magnetic field, force-free windings, million gauss	traveling-wave tube, klystron, waveguides, communication, radar
field 1958 Feb p 28–33	1952 Aug p 43-51
erystal structure, ferntes, materials technology, microwave radiation, computer memory, industrial applications of iron oxides	main-sequence stars, extraterrestrial life, stellar evolution, binary stars,
1960 June p 92–104	probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55-63
magnetic field, superconductors, Bitter solenoid, US National Magnet	a"ar evolution, Red Giant stars, stellar
Laboratory 1965 Apr p 66–78	stellar anatomy, age of cluster stars
high-pressure technology, ultrastrong magnetic fields, explosive compression, implosion, flux compression 1965 July p 64-73	1970 July p 26-39
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focusing, generation of intense magnetic fields	agronomy, crop yields, plant breeding, rice, which was id
1967 Mar p 114-123	agriculture, plant genetics 1976 Sept p 180-194
cobalt-rare earth alloys, permanent magnets, magnetic domains, anisotropy, Alnico 1970 Dec p 92-100	malaria, siekle eell disease, amino-acid substitution, anemia, hemoglobin 1951 Aug p 56-59
quantum effects, superconductivity, magnetic vortexes,	DDT, WHO, mosquitoes, eradication of malaria 1952 June p 22-23
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1971 Mar p 74-84	filariasis, leishmaniasis, plague, yellow fever, typhus, epidemiology, animal infection and human disease 1960 May p 161-170
Earth, decreasing strength of magnetic field 1957 Feb p 64 see also Earth magnetic field, remanent magnetism and the like	Anonheles mosquito, tropical medicine, Plasmodum, epidemiology,
magnetization patterns, continental drift, earthquake zones, subduction	W H O malaria eradication 1962 May p 80-70
zones, mountain formation, plate tectonies, sea-floor spreading,	biological clock, Plasmodium, parasitism, reproduction, gametocyte, mosquitoes 1970 June p 123-131 [1181]
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very high temperatures 1954 Sept p 132-142	evolution, adaptive benefits of sickle-cell anemia 1956 Aug p 87-94 [1065]
electric arc, plasma jet, heat, 30,000 degrees F torch, applications	malaria plasmodia, starve with milk? 1956 Aug p 8/294 (1959)
1957 Aug p 80-88 fusion reactor, nuclear power, plasma containment, pinch effect.	male fortility communication count birth control ovulation timing
thermonuclear reaction, thermonuclear energy for domestic power	1950 May p 10-19
1957 Dec p 73-84 [236]	male paradise, female dominance 1953 Nov p 30 male sterility, cytoplasmic inheritance, reciprocal crossing maternal
geomagnetism, geophysics, electromagnetism, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48	inheritance, sex linked traits, non-Mendelian inheritance
ion propulsion, plasma let, let velocity, cesium-ion beam, electrical	parameeium, chloroplast, plastids, cytogene, review of evidence lot
propulsion space exploration 1961 Mar p 37-03	an extra chromosomal genetics 1950 Nov p 30-37 [23] biochemistry of seminal plasma 1956 Sept p 116
nuclear power, recycling, materials, fusion reactor, fusion torch, energy transformation, plasma containment 1971 Feb p 50-64 [340]	malayteston, burshiorl or diet food sunnly human nutrition
energy transformation, energy demand, fuel-conversion efficiency,	1954 Dec p 40-50
nower prime movers, steam turbines, gas turbine, internal	food supply, human population, hunger, human nutrition Incapanna eland, capybara manatee, mussels, developing countries,
combustion engine, fuel cell, solar cells, power, nuclear power, eomparative efficiencies of energy transformation pathways in	unorthodox food sources 1967 Feb p 27-33 [1000]
dust-of conference 19/1 Sept p 140-100 [000]	corn, lysine, plant breeding, plant protein, agronomy, human nutntion high-lysine com 1971 Aug p 34-42 [1229]
black hole, interstellar gas, neutron stars, pulsar, stellar evolution,	alcoholism, alcohol metabolism fatty liver, liver function 'empty
supernovae, X-ray sources puclear magnetic resonance.	notomos' acetaldehyde cyrhosis 1976 Mar D 25-33 [1330]
	developing countries, poverty, hunger, food and agriculture, human nutrition 1976 Sept p 40-49
170 707 4 707 0 10 10 10 10 10 10 10 10 10 10 10 10 1	malpractice claims, medical care, surgery, surgical specialities, mortality
geomagnetism, natural resources, mining, mineral prospecting, aerial	rates, post-operative negligence 1973 Sept. p. 90-98 matpractice insurance, medical care, medical malpractice, doctor-patient 1976 Aug. p. 18-23
ocean floor, geomagnetism, magnetic reversals, patterned magnetic	relations 1976 Aug. p. 18-23
field variations in the ocean floor 1961 Oct p 146–156	

Malthusian doctrine, world population, economic development	manipulators, remote control, robot, feedback, automatic control,
1950 Feb p 11–15	industrial manipulators 1964 Oct p 88–9
birth control, population growth, developing countries, food	manhike creatures, monsters, Homo monstrosus mythology 1968 Oct. p 112-11
production, Julian Huxley on world population growth 1956 Mar p 64-76 [616]	mannan, algae, xylan, plant cell wall, cellulose, xylan mannan in place of
birth control, celibacy, disease, foundling institutions, infanticide,	cellulose in marine plant tissue 1968 June p 102–108 [1110
marriage age, population growth, population control in Europe	manned space flight, moon, robot spacecraft 1960 May p 61-6
1750-1850 1972 Feb p 92–99 [674]	acceleration, human physiology, weightlessness, space medicine,
mammal, duck-billed platypus, lactogenesis, isotope tracing, milk,	human centrifuge, g stress 1962 Feb p 60-7
synthesis of milk 1957 Oct p 121–128	moon, lunar exploration, lunar landing sites, remote sensing 1969 Oct p 54-72 [889]
mammalian brain, cerebral cortex, corpus callosum, brain hemispheres, split-brain experiments, monkey, cat, human post-operative subject	project derided as 'stunt' 1960 June p 8.
1964 Jan p 42–52 [174]	manoeverable reentry vehicle, see MARV
brain circuitry, nerve signals, sensory systems, stimulus localization,	manpower policy, employment levels, labor force, US economy, women
visual perception, superior colliculus in integration at brain function	in labor force, job creation vs job quality 1977 Nov p 43-51 [70]
1972 Dec p 72–82 [553]	mantis shrimps, animal behavior, marine life, stomatopods 1976 Jan p 80-8
mammalian eggs, embryonic development, oocytogenesis, meiosis, mitosis, chromosomal anomalies, ovum, in vitro fertilization	manufacturing productivity, robot, assembly, labor-saving devices
1966 Aug. p 72–81 [1047]	computer applications, programmable robot for product assembly
mammalian evolution, reptile, dinosaurs, paleontology, therapsids,	1978 Feb p 62-74 [929
ichthyosaurs, evolution, origin of mammals 1949 Mar p 40–43	marasmus, diet, fasting, human nutrition, metabolism, starvation,
continental drift, speciation, reptile evolution, radiation, genetic	kwashiorkor, physiology of starvation 1971 Oct p 14–21 [1232
convergence, Gondwanaland, Laurasia, supercontinent breakup and animal diversification 1969 Mar p 54-64 [877]	marble, architecture, sculpture, erosion, limestone, atmospheric pollution weathering, preservation of stone 1978 June p 126–136 [3012
animal diversification 1969 Mar p 54-64 [877] animal behavior, hopping energetics, kangaroos, marsupial	Marconi, radio, triode, De Forest, vacuum tube, Fleming valve diode,
1977 Aug. p 78–89 [1366]	rectification, De Forest's 1906 contributions 1965 Mar p 92-100
mammary gland, lactogenesis, milk, casein, hormonal action, cell	marginal farmlands, dust storms, dry-land farming, Great Plains, wind
secretion, composition and synthesis of cow's milk	erosion, agricultural technology 1954 July p 25–29
1969 July p 58-68 mammoth-bone deposits, Clovis culture, hunting. Folsom points, New	marijuana, Cannabis sativa, drug abuse, consciousness, pharmacology. sociology 1969 Dec p 17-25 [524
World archeology, elephant extinction 1966 June p 104-112	clinical and psychological effects 1969 Feb p 43
mammoths, glaciation, Ice Age hunters, Mousterian assemblages,	reverse Heisenberg effect 1977 Mar p 64
Ukraine 1974 June p 96–105 [685]	marine algae, biological clock, crabs, diatoms, sand hoppers, tidal-zone
man mammoth cohabitation 1956 Apr p 68	organisms, tidal rhythms integration of biological and sidereal
man-apes, human evolution, Plesianthropus, Australopithecus Paranthropus, primates, hominids branched from other primates 30	cycles 1975 Feb p 70-79 [1316 marine biology, Woods Hole, oceanography 1949 Sept p 13-17
million years ago 1948 May p 16–19	food, human nutrition, food from the sea 1949 Oct p 16-19
human evolution, Homo, Australopithecus, Paranthropus,	'false bottom', plankton, sonar, shrimp, heteropod, deep-sea scattering
Plesianthropus 1949 Nov p 20-24 [832]	layer, deep-sea 'layer of life' 1951 Aug p 24-28
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71	Challenger, oceanography 1953 May p 88-94 animal communication, fish communication, crustacea whale
toolmakers, Olduvai Gorge, human evolution, cultural evolution, role	porpoises, animal sounds in the sea 1956 Apr p 93–102
of tool-making in biological evolution of man, introduction to single-	abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters
topic issue 1960 Sept p 62–75 [601]	1957 Nov p 50-57
primate evolution, hominoid, fossil primates, apes, Fayum,	buoyancy, swim bladder, chambered nautilus cuttlebone
Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28–35 [636]	1960 July p 118-128 chordates, salpa, natural history 1961 Jan p 150-160
Swartkrans man 1949 Jan p 29	Arctic Ocean ocean circulation telemetry, meteorology, Northeast
man-day, labor capability, muscle power, 'scientific management'	Passage, ice-floe islands, bathy metry, Soviet Aretic research
1971 Oct p 96–103	1961 May p 88–102
man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140	animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p. 128-138 [124
communication, computer language talking computers	orientation 1962 June p 128-138 [124] Antarctica oceanography, food chain, krill, blue whale ecology,
1975 Mar p 36-42	Antaretic convergence, biological province of Antaretic convergence
management science, assembly lines, mass production, Sweden, work	1962 Sept. p. 186-216
satisfaction, worker teams, 'scientific management' 1975 Mar p 17–23	biosphere, continental drift, ocean evolution, Pangaea, plate tectonics
manatee, malnutration, food supply, human population, hunger, human	1974 Apr p 80-89 [912] marine birds, comparative physiology, reptile, adaptation salt exercting
nutrition, Incaparina, eland, capybara, mussels developing	glands 1959 Jan n 109-116
Countries, unorthodox food sources 1967 Feb p 27–35 [1068]	phalarope sexual behavior, animal behavior, parental care sex role
Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43	hormone 1969 June p 104-111
Mandarin Chinese, Chinese language, Chinese writing tones computer	marine ecology, celgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1951 Jan p 52-55
translation, Chinese dialects 1973 Feb p 50-60	algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous
manganese, trace elements, tron, zinc, copper, magnesium, todine, human	1958 Aug n 92-98
from slag heaps 1953 Jan p 22–25 1952 May p 36	sea 100d enain, plankton ocean fish, marine life, life in the ocean
manganese nodules, ocean floor, mineral resources mining industry.	1969 Sept p 146-162 [884] marine pollution tar tanker wastes pelagie tar 1975 June p 90-97
minerals on the ocean thoor 1960 Dec. p. 64-72	marine ecosystems, elimatic change coral reefs energy cycle, fossil reefs
plate tectonics, sea floor spreading, metals, mid-ocean ridge, hydrothermal extraction, origin of metal deposits on ocean floor	most as also a
in the state of th	1077 June n 64 66 10017
1079 Eab = 54 61 (020)	marine engineering, vaelit design, hull design towing tank tests sail
manic depression, animal behavior, higherinal sheet averaging sheets	marine engineering, vacht design, hull design towing tank tests sail
1978 Feb p 54-61 [929] manie depression, animal behavior, biological clock, circadian rhythm circannual rhythm hibernation, animal migration	marine engineering, vacht design, hull design towing tank tests sail design design marine farming, food supply fisheries sea-water nutrients upwelling, fishponds
manic depression, animal behavior, higherinal sheet averaging sheets	marine engineering, vacht design, hull design towing tank tests sail design marine farming, food supply fisheries sea-water nutrents, they allow

marine iguana, ciclilid fish, rattlesnake, fighting behavior, animal	
behavior, comparative psychology, oryx 1961 Dec p 112-122 [476	Mars, polar cap, desert, atmosphere, climate, 'canals', picture from Earth
marine disect, water striper flatopates 1060 to - 4	1953 May n 65-73
marine invertebrates, escape response, starfish, limpets, scallop, prey-	astronomy, venus, almosphene windows
predator relationship, snail, chemical signals	Jupiter, moon, spectrometry, history and recent results of infrared
1972 July n. 02, 100 tips	astronomy 1965 Aug p 20-29
marine life, sea, food chain, plankton, marine coology, ocean, fish, life in	opace exploration, trialine 4, telementy, spacetant
1960 Sent n 146 162 1004	navigation, spacecraft 1966 Mar p 42-52
carbon dioxide, neusion, microlayer oceanography, ocean surface	i i i i i i i i i i i i i i i i i i i
rainwater composition, surfactant 1974 May p. 62-77 1013	camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr. p. 54-68
olvaives, ciams, mollusks, symbiosis 1975 Apr. p. 96-10	1966 Apr p 54-68 Interplanetary space, Mariner 4, magnetosphere, micrometeorites
occan-noor animals, occan floor photography 1975 Oct p 84-9	trapped radiation, atmosphere, solar wind, cosmic radiation space
animal deflavior, mantis shrimps, stomatopode 1976 for n en eq	exploration 1966 May p 62-72
marine organisms, cell aggregation, Mesozoa, multicellular organisms	Venus, atmosphere, space exploration, atmospheric differences
plankton, appendicularians 1972 Dec p 94-101 [1262]	1969 Mar p. 78–88
marine pollution, marine ecology, tar, tanker wastes, pelagic tar	
1076 L	camera, cratering, surface pictures and map of Mars
marine resources, ocean floor, ocean, sca power, sea water, introduction	
to single-topic issue on the ocean 1969 Sept p 54-65 [879]	dust storms, terrestrial planets, cratering, tectonic processes, mountain
marine technology, drilling platforms, ocean, supertankers, submersibles,	
containenzation, technology and the ocean	Martian volcanoes, Mariner 9 findings 1976 Jan p 32-43 interplanetary navigation, navigational accuracy, spacecraft navigation
1969 Scpt p 198-217 [887]	Viking missions 1976 June p 58-74
silicone ship coating 1960 Mar. p. 90	
marine wax, biological wax, copepod lipids, coral reef wax, metabolic	1977 Feb p 30-37 [352]
fuel, food chain 1975 Mar n 76-86 [1318]	Martian atmosphere, dust storms, dry ice fogs, wind erosion, Mariner
marine worm, Annelida, feather duster worm, lugworm, biological clock,	voyages 1977 July p 34-43
circadian rhythm 1959 June p 132-142	extraterrestrial life, space exploration, Viking lander experiments
Mariner 2, space exploration, telemetry, Venus, navigation, orbital	1977 Nov p 52-61 [389]
motion, high-resolution studies of Venus 1963 July p 70-84	Viking landers, Viking orbiters, Martian surface, Martian winds
Mariner 4, artificial satellite, Mars, space exploration, telemetry, spacecraft navigation, spacecraft 1966 Mar p 42-52	orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
spacecraft navigation, spacecraft 1966 Mar p 42-52 interplanetary space, Mars, magnetosphere, micrometeorites, trapped	
radiation, atmosphere, solar wind, cosmic radiation, space	close approach 1955 Sept p 16 weather, topography 1957 Feb p 6
exploration 1966 May p 62-72	Martian water vapor 1963 Aug p 52
Mariner 6, Mars, Mariner 7, telemetry, orbital motion, polar cap,	first data from Magner IV 1965 Aug p 42
television camera, cratering, surface pictures and map of Mars	Mariner IV photographs 1965 Sept p 70
1970 May p 26-41	Mariner IV photographs 1965 Nov P 49
Mariner 7, Mariner 6, Mars, telemetry, orbital motion, polar cap,	Mariner 7 photographs 1969 Sept p 97 Mariner 6 and 7 surface pictures 1969 Dec p 52
televiston camera, cratering, surface pictures and map of Mars	tom F.t. a M
1970 May p 26-41	reddish color, carbon suboxide flakes(*) radar and spectrometric measurements of topography
Mars, Phobos photographed 1970 July p 50 Mariner 7 photographs, Mars 1969 Sept p 97	1970 Mar p 00
Mariner 9 results, Martian topography, Martian atmosphere, planets,	Mariner 7 Phohos photographed 1970 July p 50
solar system, space exploration, polar cap, 'braided' channels, dune	orbiting probes planned 1970 Sept P 80
fields, photomosaic, volcanoes on Mars 1973 Jan p 48-69	spacecraft photographs analyzed 1971 Apr p 50
Mariner spacecraft, Venus expedition 1974 Apr p 48	findings by Mariner 9 1972 Mar p 40 Viking missions 1972 May p 49
markedness/unmarkedness dyad, verbal communication, communication,	1076 Dec n 54
acoustic formants, phonetics, morphemes, syntax, context sensitivity,	floods 1970 Dec p 48 hfe-experiment ambiguities 1977 Feb p 48
invariant/variable dyad 1972 Sept p 72-80 markers, electronic switching, telephone switching, electromechanical	marchland alimate swamp ecology entrophication wetlands natural
switching, electronic replaces electromechanical switch	history of march effect on climate 1938 Oct D 114-122 (579)
1962 July p 132–143	marsupial, opossum, death-simulation, animal behavior, playing possum
market, commerce, agricultural system, peasants, peasant markets in	by opossum and other animals 1930 Jan p 32 34
Haiti 1960 Aug p 112–122 [647]	opossum, folklore, natural history 1953 June p 86-79 animal behavior, hopping energetics, kangaroos, mammalian evolution
market networks, anthropology, central-place theory, People's Republic	animai benavior, nopping energencs, kangaroos, manamana 78–89 [1366]
of China, Guatemala, rural markets 1975 May p 66-79	Martian atmosphere, Martian topography, Mariner 9 results, planets
market process, decision theory, energy economics, power production, technology assessment, tort law, economic planning	solar system, space exploration, polar cap, 'braided' channels, during
1971 Sept p 191-200 [6/1]	fields, photomosaic, volcanoes on Mars 1973 Jan p 40 07
Markos chain mathematics probability, combinatorial analysis, normal	Mars, dust storms, dry ice fogs, wind erosion, Mariner voyages 1977 July p 34-43
Recurrent motion. Pascal's triangle, statistics, probability	Martian moons, Deimos, Mars, Phobos, Mariner spacecraft missions
1964 Sept p 92–108	1977 Feb p 30~37 [332]
marriage, Africa, sister exchange, marriage contracts 1975 Dec p 84-94	evidence of chandratic composition 1978 Mar. p. 10
marriage age, birth control, cehbacy, disease, foundling institutions, infanticide, Malthusian doctrine, population growth, population	Martian surface, Mars, Viking landers, Viking orbiters Martian winds.
1972 FED D 32-33 [074]	orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
control in Europe 1750 to anthropology, Sebei tribe	Martian topography, Mariner 9 results, Martian atmosphere, planted
1052 A	solar system, space exploration, polar cap, braided channels, dutie
marriage partner, girl next door	fields, photomosaic, volcanoes on Mars
American Negro, Skill color, blood typing,	24 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
gene, population genetics, genetic inclining of table 1954 Oct p 80-85	Marian sinde Mare V. I was the transfer Warran Surface
death rate, birth rate, vital statistics.	orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
marriage rate, abortion, population, death less registers, York, menarche, infant mortality, 1538-1812, parish registers, York, 1970 Jan p 105-112	MARV: maneuverable reentry vehicle
menarche, intant mortality, 1558-1612, partial 1970 Jan p 105-112 England	****
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MARV, mutual assured destruction, counterforce strategy, military	glass fiber, synthetic fiber, composite materials, plastics, properties of
expenditures, SALT, arms race, MIRV 1974 May p 20–31	'two-phase' materials 1962 Jan p 124-134
naser: microwaye amplification by stimulated emission of radiation	wear, adhesive wear, abrasive wear, corrosion, fatigue wear, surfaces in
naser, atomic clock, ammonia maser, cesium clock, zenith tube, mercury	sliding contact 1962 Feb p 127–136 electromagnetism, superconductivity, shaped field, magnetic bottle,
mirror, improvements on sidereal time 1957 Feb p 71–82 [225]	development and applications of supermagnets
microwave amplification, stimulated emission, quantum mechanics,	1962 June p 60–67 [279]
coherent radiation, principles and uses of maser 1958 Dec p 42-50 [215]	crystal structure, steel alloys, ausform process, heat-treating for
laser, coherent radiation, stimulated emission, first lasers as 'optical	strength 1963 Aug p 72–82
masers' 1961 June p 52–61 [274]	glass metals, ceramics, polymers, chemical band, composite materials,
microwaves, interstellar matter, hydroxyl radical, infrared astronomy,	atom, elements, introduction to single-topic issue on materials
energy levels, protostars, interferometry 1968 Dec. p. 36-44	1967 Sept p 68–79
cosmie masers, hydroxyl maser, water maser, maser star, interstellar	crystal structure, solid-state electronics, X-ray crystallography, metals, semiconductor, nonmetals, amorphous solid, electrical conductivity
matter, astrophysics, quantum mechanics, 'nature imitates art' 1978 June p 90-105	1967 Sept p 80–89
1001 26 01	alloys metals, crystal structure, grain boundaries, lattice defects
talking maser 1961 Mar p 91 stimulated by two photons 1965 Oct p 40	dislocations electron 'gas', nature of metals 1967 Sept p 90-100
see also laser	aluminates ceramies crystal structure, silicates, heat resistance ionic
maser star, maser, cosmic masers, hydroxyl maser, water maser,	bonds, covalent bonds, nature of ceramics 1967 Sept p 112–124
interstellar matter, astrophysics, quantum mechanics, 'nature	amorphous solid, glass, supercooling, crystal structure, geometry of
imitates art' 1978 June p 90–105	glass, two-phase glasses 1967 Sept p 126–136 polymers, natural polymers, plastics, cross-linking, covalent bonds
maser telescope, precision of solid-state maser 1958 June p 46 mass, spectroscopy, vacuum, ultra-high vacuum, oil diffusion pump,	1967 Sept p 148–156
sputter-ion pump, cryogenic pump, vacuum down to 10 12 mm of	composite materials, whiskers, fiber glass, two-phase materials, fiber-
mercury 1962 Mar p 78–90	reinforced composites, matrix, eutectics 1967 Sept p 160-176
mass-communication media, communication, message systems, television	heat conduction, phonon thermal waves thermal conductivity, thermal
violence, cultural patterns, sociology, mass communications as social	properties of materials 1967 Sept p 180–188
environment 1972 Sept p 152–160 [679]	electrical conductivity, Fermi surface, semiconductor, quantum
mass communications, elections, public opinion, attitude survey	mechanics, charge carners electron mean free path, electrical properties of materials 1967 Sept p 194–204
1953 May p 46–48 mass production, assembly lines, Sweden, work satisfaction, worker	solid state physics crystal defects epitaxial growth, surface chemistry,
teams, management science, 'scientific management'	precipitation in solids 'doping', chemical properties of materials
1975 Mar p 17–23	1967 Sept p 210-220
mass spectroscopy, spectroscopy, separation techniques, ion beam	electron spin, ferromagnetism magnetic domains hysteresis magnetic
1953 Mar p 68–74	properties of materials 1967 Sept p 222–234
spectroscopy, age of elements, age of universe element formation,	spectroscopy, color, photoelectric effect, laser, transparency optical
nucleochronology, radioactive nuclei, stellar evolution, supernovae	properties of materials 1967 Sept p 238–248 input-output analysis, interchangeability of materials, cost assessment,
1974 Jan p 69-77 mass standard, cesium clock, length standard, time standard temperature	price trends, metals, plastics, competition among materials
standard, interferometry, measurement 1968 June p 50–62	1967 Sept p 254–266
mass transit, underground transport, pneumatic propulsion, railway,	zone refining, zone melting, distribution coefficient, germanium
gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40	silicon, single crystals purified 1967 Dec p 62–72
railway, traffic patterns, cities commutation automobile,	steel, transformation-induced plasticity, strength ductility
transportation, Bay Area Rapid Transit system as model for urban transportation 1965 Sept p 162-174	1968 Nov p 36–45 Dance of the Solids, a poem by John Updike, occasioned by the
urban planning, central city, cities, highway engineering open space,	September 1967 issue 1969 Jan p 130–131
diversity, 'paths' 1965 Sept p 209-219	metalliding, superplasticity, microduplex structure thermomechanical
cities, urban transport, computer modeling personal-transit systems,	processing, grain structure, metals that can be formed like plastics
systems analysis 1969 July p 19–27	1969 Mar p 28-35
massive nuclei, cosmic radiation 1951 May p 26–30	explosions, shock waves solids, phase transitions 1969 May p 82-91
cosmie radiation, high-energy physies, Milky Way, magnetic field, particle acceleration, supernovae, fundamental research, where do	heat resistance, polymers plastics, aromatic hydrocarbons, high- temperature-resistant plastics 1969 July p 96~105
cosmic rays come from? 1953 Sept p 64-70 [239]	alloys metalliding diffusion, surface alloy, molten fluoride, electrolysis
massive stars, galaxy, stellar evolution nebulae, stellar associations,	1969 Aug p 38–46
massive stars are short-lived 1956 Feb p 36-41	automobile propulsion, electric power generation, energy storage,
material resources, recycling, biosphere, nonrenewable resources,	composite materials, flywheels 1973 Dec p 17-23
materials, heat, temperature limits, ablation rocket nozzle, turbine	inorganic polymers, polymer structure polymene sulfur, silicon polymers 1974 Mar. p. 66-74
bucket, high temperatures materials 1954 Sept p 98–106	polymers 1974 Mar p 66-74 corundum, crystal structure, cubic boron nitride, diamond, hardness,
nuclear power, recycling, fusion reactor, fusion torch, energy	Mohs scale 1974 Aug n 62_70
transformation, plasma containment, magnetohy drodynamics	atomic structure, crystallographic techniques 'extended fine structure'
1971 Feb p 50-64 [340]	effect, X-ray absorption 1976 Apr. p. 96-103
materials technology, catalysis, polymers, industrial chemistry, stereoisomers, synthesizing giant molecules 1957 Sept p 98–104	materials wanted, catalogue of dreams 1953 Aug n 40
catalysis, polymers, industrial chemistry, stereoisomers synthesizing	maternal behavior, heartbeat, mother-child interaction, fetal conditioning left-side preference in babyholding 1973 May p. 24-29
giant molecules 1957 Nov p 98–104	maternal deprivation, behavioral psychology, emotional deprivation,
building construction prestressed concrete, architectural engineering	rhesus monkeys, surrogate mother, infant monkey 'love'
1958 July p 25–31	1950 June n. 68 74 (470)
crystal structure, metals, aligned crystals alignment of crystals for control of mechanical and magnetic properties	social deprivation, comparative psychology rhesus monters, neer
1959 Apr p. 125-141	group, experiments in social deprivation
crystal structure, stress fracture, metallurgy, cracks and fracture	comparative psychology, parental care, emotional development,
1060 Eab a 01 101	abnormal behavior carly experience and emotional development
restal structure magnetism, ferrites microwave radiation, computer memory, industrial applications of iron oxides 1960 June p 92-104	- Perimenta with 1815 1067 Iuma - 130 147 Iuma
grass their option grass ceramics amorphous solid properties of class	material unicitality, Cytoplasmic inheritance, recommend and
as 'undercooled liquid 1961 Jan p 92–104	made traits from viendenan inhentance male combin
·	chloroplast, plastids, cytogene, review of cytdence for an extra-

chromosomal genetics 1950 Nov. p 30–39 [39)]
cytopassine innertance, extranuclear DNA mitochondria chloronteni	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Ciminy domonas 1965 fan n 70-70 (100)	
material morning, abortion, birth control, infant mortality public	
opinion, legal status, incidence in U.S and other countries	Monte Carlo method, Buffon needle problem random numbers,
1969 Jan p 21–27 [1129	probability 1955 May p 90-96
abortion, population, birth control, public health, infant mortality,	goomery, geometry, carved me, reach and
international comparison of experience with legalization of abortion	limits of axiomatic approach 1956 Mar p 104-114
1077 Town 21 27 11240	logic, Carroll, Dodgson, 'Alice in Wonderland', Lewis Carroll (Charles
mathematical concepts, child development, how children form	
mathematical concepts 1953 Nov. p. 74–79 1420	Godel's proof, logie, paradox, philosophy of science, undecidable
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	problems in axioms of arithmetic 1956 June p 71-86
mathematical invention, creativity, set theory, analytic geometry, Fermat's	hexastexagons, slexagon, slexigation, topology, delight and depth of
last theorem, innovation in mathematics 1958 Sept p 66-73	mathematics 1956 Dec p 162-166
last theorem, innovation in mathematics 1958 Sept p 66-73	Bourbaki, philosophy of science, axiomatics, science history, labors of
mathematical logic, antinomy, paradox, logic, barber paradox,	the mathematical collective self-styled Bourbaki 1957 May p 88-99
undecidable questions, Godel's proof, Grelling's paradox,	prime number, science history, sieve of Eratosthenes, mathematical
Epimenides' paradox, Zeno's paradox, paradox and foundations of	sieves and their uses 1958 Dec p 105-112
logic 1962 Apr p 84–96	
games theory, paradox, decision theory, 'metalogic' to solve paradox	Descartes, biography 1959 Oct p 160-173
1967 July p 50-56	Koenigsberg bridges, mnemonics, salesman's route, delight and depth
Godel's proof, metalogic, undecidable questions 1971 Mar. p 50-60	in mathematics 1961 May p 148-158
formalism, infinitesimals, Platonism, real-number line	applied mathematics, introduction to single-topic issue on mathematics
1971 Aug p 92–99	1964 Sept p 40-49
calculus, Euclidean geometry, falling-stone problem, infinitesimals,	number theory, negative numbers, irrational numbers, complex
method of exhaustion, nonstandard analysis 1972 June p 78-86	numbers, matrix 1964 Sept p 50-59
mathematical model, linear programming, decision theory	geometry, topology, non-Euclidian geometry, conic sections, history
1954 Aug p 21–23	and current uses of geometry 1964 Sept p 60-69
physics, physical models, creativity, innovation in physics	algebra, science history, matrix, vector 1964 Sept p 70-78
1958 Sept p 74-82	probability, combinatorial analysis, normal eurve, Brownian motion
geology, tectonic processes, scaling, block fault, geosyncline,	Markov chain. Pascal's triangle, statistics, probability theory
experimental geology 1961 Feb p 96-106	1964 Sept p 92-108
vehicular traffic flow, urban transport, traffic theory, modeling auto	physical seiences, group theory, 'eightfold way', field theory, S matrix
flow patterns 1963 Dec p 35-43	theory, mathematics in physics 1964 Sept p 128-146
Monte Carlo method, gas kineties, computer modeling, chemistry by	biological seiences, self-reproducing machine, nerve impulse,
computer 1964 July p 100-108	predation. Turing machine, automata theory, mathematics in biology
economies, social seiences, decision theory, mathematics in economics	1964 Sept p 148-164
and other social sciences 1964 Sept p 168-182	control theory, cyberneties computer programming feedback,
computer modeling, giant molecules, cytochrome helix, myoglobin,	frequency recourse stability dynamic programming 'DOIICY'
1 ng, DNA 1966 June p 42-52 [1043]	concept 1964 Sept p 180-200
ca phenomena, topology	arithmetic computer history computer's contribution to mathematics
1976 Apr p 65-83	1964 Sept p 202-210
area-minimizing principle, measure theory, mathematical surfaces,	fixed point theorems, topology, surface deformation, contraction
soap bubbles, surface geometry 1976 July p 82–93	1966 Jan p 103-110
mathematical philosophy, mathematical proof, foundations of	topology, sphere, differential topology, torus, everted sphere proof
mathematics, set theory 1964 Sept p 112-127	1966 May p 112-120
mathematical proof, probability, law of large numbers, gambler's fallacy,	set theory, non-Cantorian sets, Russell's paradox, Cantor, non-
random walk, philosophy of science 1950 Oct p 44-47	Euclidian geometry, axiom of choice 1967 Dec p 104-116
probability, statistics, fundamental reasoning, fundamental research,	philosophy, Leibnitz, calculus, symbolic logic, calculating machine,
What is probability? 1953 Sept p 128-138	Leibnitz, biography 1968 May p 34-100
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to single-topic issue on medical care 1973 Sept p 22-33	active transport 1972 Feb p 30-38 [1241]
arteries, atherosclerosis, coronary disease, thrombus, monoclonal	membrane potential, kidney tubule, sodium pump, active transport, cell
hypothesis, plaque formation 1977 Feb p 74-85 [1351]	membrane, biological pumps 1962 Aug. p 100–108 bioluminescence, plant cell, calcium pump, ton potential, electricity in
medieval archeology, Scotland, St. Ninian's Isle, silver artifacts, the	
treasure of St. Ninian's 1960 Nov. p. 154–166	plants 1962 Oct p 107–117 [136] nerve conduction, synapse, reflex arc, motor neuron, inhibitory
medieval life, English medieval village, Wharram Percy site 1976 Oct. p 116-128	impulse, transmitter molecules, nerve excitation, activity at the
	neural synapse 1965 Jan p 56–66 (1001)
medieval technology, science history, technological innovation, windmills,	axon, neurology, nerve conduction, Schwann cell, axoplasm, perfusion
pumps, blast furnace, bellows, medieval uses of the air 1970 Aug p 92-100 [336]	technique, cell perfusion, structure of axonal tube, physiology of
Mediterranean Sea, Black Sea, Tethys Sea, sea level, geological history of	neural transmission, concentration gradients
Black Sea 1978 May p 52-63 [932]	1966 Mar p 74-82 [1038]
Mediterranean wines, viticulture, wine varieties, temperate-climate wines	membrane proteins, cell membrane, membrane lipids, membrane
1974 June p 106-115 [1298]	permeability, phospholipids, active transport
medulla, central nervous system, reticular formation, brain, perception,	1972 Feb p 30-38 [1241]
motor reflex, neurophysiology, attention and orienting mechanism in	cell membrane, lipid molecules, membrane structure, active transport
brain 1957 May p 54-60 [66]	1974 Mar p 26-33 [1292]
megalopolis, Great Lakes region 1966 Oct p 46	membrane structure, cell membrane, lipid molecules, membrane proteins,
megnetohydrodynamics, stellar magnetic fields, cosmic radiation, radio	active transport 1974 Mar p 26-33 [1292]
emissions, electrical induction, electricity in space	membrane technology, artificial gill 1964 Nov p 59
1952 May p 26–29	memory, brain, learning, cerebral cortex, fundamental research, What is
melosis, mutotic apparatus, cytology, chromosome, mutosis, mechanism of	memory? 1953 Sept p 118–126 [11]
cell division 1961 Sept p 100–120 [93]	information processing, learning theory, reason, rational association as aid to memory 1956 Aug p 42-46 [419]
Down's syndrome, chromosomal anomalies, Klinefelter's syndrome,	evolution, intelligence, learning, language, imagery, experimental
trisomy 21, genetic defect, mitosis, gene translocation, nondisjunction, afflictions associated with abnormal chromosome	psychology, learning in man and animals 1957 June p 140-150
complement 1961 Nov p 66-76 [150]	education, learning, experimental psychology, 'drill' in learning
tissue culture, mitosis, plant cell differentiation, clone, generation of	1958 Aug p 68-72 [422]
whole organism from tissue cell (carrot) 1963 Oct p 104-113	glial cells, learning theory, neurones, RNA, brain, molecular theory of
embryonic development, oocytogenesis, mitosis, mammalian eggs,	memory 1961 Dec p 62-70 [134]
chromosomal anomalies, ovum, in vitro fertilization	learning, forgetting, proactive and retroactive interference
1966 Aug p 72-81 [1047]	1964 Mar p 91–99 [482]
mitosis, ovum, fertilization, embryonic development, blastocyst, human	visual search, visual scanning, information processing, reading, pattern
embryos in the laboratory 1970 Dec p 44-54 [1206] Meissner effect, superconductors, quantum mechanics, magnetic field,	recognition 1964 June p 94-102 [486] digit recall, short-term memory, long-term memory, tachistoscope
magnetic impermeability, quantized vortexes, quantum effects in	1966 July p 90-95 [499]
superconductors 1965 Oct. p 57–67	brain metabolism, protein synthesis, goldfish, learning, conditioned
Mekong river, economic development, irrigation monsoons, floods,	behavior 1967 June p 115–122 [1077]
hydro-engineering, rice, Mekong river plan, United Nations	holography, learning, brain function, interference patterns, monkey
1963 Apr p 49-59	brain, holographic model, neurophysiology of remembering
melanin, hormone, skin color, pigmentation, melanocytes, melatonin	1969 Jan p. 73-86 [570]
1961 July p 98–108	amorphous semiconductors, switching, glass, threshold switch, memory
melanism, evolution, speciation, guillemot, skua, ornithology, avian	switch 1969 Nov p 30-41
evolution 1957 May p 124-134	image processing, perception, linguistic material, visual memory,
camouflage, evolution, moths, speciation, air pollution, population genetics, mutation genetic variation, evolution observed	remembering what is seen 1970 May p 104-112 [528] apilysia, neurones, behavior, learning, synapse, heterosynaptic
1959 Mar p 48–53 [842]	facilitation, memory and learning at nerve-cell level
air pollution, evolution, moths, gene mutation, population genetics,	1970 July p 57-70 [1182]
predation, evolution observed again 1975 Jan p 90-99 [1314]	information retrieval, learning, long-term memory, short-term memory
melanocytes, hormone, skin color, pigmentation, melanin, melatonin	1971 Aug 75 27 00 (520)
1961 July p 98–108	biain development, environmental stimuli, learning, rats, sensor,
cancer, ultraviolet radiation, suntaining, epidermis, skin, vitamin D	deprivation 1972 Feb p. 22-20 (541)
1968 July p 38-46 melatonin, hormone, skin color, pigmentation, melanin, melanocytes	crime, eye-witness testimony, perception jury trial
201 × 98 × 101 1 101	[974 Dec p 23-31 [562]
adrenal gland, pineal organ, biological clock estrogens, propesterone	calculating machine, computer, pocket calculator, integrated circuits
verounili, priedriegulation of the plante loce this - to thinist	1976 Mar p 88-98 brain organization, hippocampal system, rats, spatial memory
membrane, critical interpretation and an analysis of the	1977 tune n 93 09
transformation in the cell	molecular memory 1977 June p 82–98 sile of short-term memory 1961 Dec p 76
bacterial cell, cell wall, bacterial metabolism, percelled	and of more cent menior, in prain
DOINGLEIT HIGE ENCORPORAGE	
see also cell membrane artificial membranes and the like	computer, 'Simple Simon' a minimal
	1950 Nov p 40_43

nenarclic, adolescence, child development, grow		Merton rule, falling-body velocity, free fall, Galileo,	
children in industrial countries	1968 Jan p 21–27		1973 May p 84-92
abortion, population, marriage rate, death rate		mescntery, capillary bed, blood circulation, arteriole	, venule, 1959 Jan p 54-60
statistics, infant mortality, 1538-1812, parisi England	1970 Jan p 105–112	cardiovascular system mesoderm, cell differentiation, embryonic developme	
adolescence, child development, medical care,		gastrula, fertilization, ectoderm, endoderm, emb	rvological
age', heredity vs environment	1973 Scpt p 34-43	'organizer', science history, review of classical er	nbryology
adolescent development, bespeaks health rathe		1957	Nov p 79-88 [103]
	1972 May p 50	embryonic development, heart embryology, first h	eartbeat
hastened by social stimulation9	1972 June p 53	195	ig Mar p 87-96 [36]
Mendclees, deflater of psychic research	1978 June p 88	cell differentiation, embryonic development, panci	eas, endoderm
mendelevium, californium, table of elements, ein	steinium, fermium,	tissue culture 1969	Mar p 36-44 [1136]
'synthetic' elements transuranium elements		Mesolithic era, cultural anthropology, Ishango man,	962 June p 105-116
	1956 Dec p 66-80 [243]	culture 10,000 B C mesons, elementary particles, electron, proton, partic	de counters, neutron
Mendelian inheritance, neurospora, mutation, na expression, genetic disease, tryptophan-niac	un relation one cone-one	positron, photon, neutrino, particle accelerator,	nuclear dinums
enzyme hypothesis, selection for defect	1948 Scpt p 30-39 [1]	force 'Meson Song'	1948 June p 20-32
Mendel's laws, chromosome mapping, mutation,		high-energy physics, v-particles, fermion, boson th	e multiplicity of
on the eve of the resolution of the genetic co		particles	1932 Jan P 22 2
	1956 Oct p 78-90 [17]	electromagnetic force, nuclear forces, proton, neutr	on particle
Mendel's papers, widely circulated	1968 July p 55	scattering, high-energy physics, fundamental res	1953 Sept p 58-63
Mendocino escarpment, ocean floor, Pacific Oce	an, fracture zones,	the nucleus together? strong interactions, nuclear binding force, particle	physics, fleeting
seamounts, Earth mantle convection	1955 July p 36–41	accordations of mesons and atomic nuclei 1930	Out p 22 tons
menstrual cycle, progesterone, pregnancy, uterin hormone inhibition of uterine muscle contra	e musere, normone,		
normone inflighted of diethie muscle contra	1958 Apr p 40-46 [163]	quantum of the strong torce 172	1 3411 p 0
mental health, Hutterites, psychosis, standard ex	pectancy method,	t i have been strong force 'eighti	old way,
epidemiology	1953 Dec p 31-37 [440]	conservation laws, Regge trajectory, resonance	Feb p 74-93 [296
emotional illness, schizophrenia, epidemiology	y, family, psychosis,	himothecis	
mcome status	1954 Mar p 38-42 [441]	particle accelerator, pions, proton, quark, high-enel nucleons, Regge trajectory, high-energy scatterin	g
alkaloids, hallucinogens, drug addiction, cons	ciousness alteration,		1907 1700 1
LSD, psychosis, psilocybin, mescaline, effect	1964 Apr p 29–37 [483]	baryons, high-energy physics, hadrons, leptons, que	intum numbers
community mental-health centers, emotional	iliness insvehiatric	paryons, high-energy physics, hadrons, reputis, que quark confinement, bag model, infrared slavery i	nodel, string model, 1976 Nov p 48-6
hospital population, psychoactive drugs, ps	vchotherapy, psychiatry,		1948 Dec p 20
psychoanalysis	1973 Sept p 116-127	elementary particles, multiplying particles	1949 June p 20
Federal program	1948 Sept p 28	16 new varieties in USSR	1961 June P 8
diagnosis by art	1954 Mar p 48	nuclear structure charmed meson quark model	1976 Aug P 44A
Ford funds research	1955 July p 52	and a standard cloud meleculus ust	condensation
mental illness, see emotional illness	1958 Mar p 60	nuclei, rocket-borne collectors sample noctilucen	1963 June p 50-59
mental retardation, socioeconomic factors	1964 July p 46		
phenylketonuria test idiot savant twins	1965 Aug p 46	Mesopotamia, transportation, wheeled vehicles, oxen, Transcaucasus, origin of wheeled transport 5,000	years ago
environmental deprivation from age 1 to 3	1967 Dec p 50	Transcaucasus, origin of wheeled transport	1968 July p 82-90
	1968 Sept p 91	hieroglyphs writing, pictograph, ideographs, origin	of writing in clay
war antificial cotalite relativity theory, sic	Har shift, electromagnetic	tokens 1978	June p 50-59 [708
frequency shift, perihelion shift, clock parae testing Einstein's general theory of relativity		Mesopotamian culture, ancient trade, archeology, writ	ing Lianer
artificial satellite, orbital motion, space explor		culture, Persia, Sumer, man, Tope 1 and 1971 In	ne p 102-111 600
Doppler effect, planetary motion, radar astron			
- Annua Venus microwaves	1700 0111) 1	mesquite, desert ecology, Joshua trees, creosote bushes	Apr p 68-75 [114
planete solar system, craters, Mariner to miss	1964 Oct p 60	1700	media television
Venus, planetary temperature and motion	1965 June p 58	message systems, communication mass-communication violence, cultural patterns, sociology, mass communication violence, cultural patterns, sociology, mass communication mass-communication mass-communicati	inications as social
rotation detected by radar report from findings by Mariner 10 mission	1974 Mar p 44	Violence, cuttural parterns, southers, 1072 Cer	n 152-160 (0/7
radar reveals cratered topography	1974 Mar p 44	Chylomian a function cyclic AMP dopi	amine, endocin
Mariner 10 mission report	1974 May p 59 1974 Sept p 68	system, nervous system, near out and	docrinology
Mariner 10 report	interference fringes	system, nervous system, neurottalismited, 2 Parkinson's disease, 'second messengers' brain en	p 108-119 [1368
Mariner 10 report mercury 198, standard of length, interferometry,	1948 Aug p 48-53	The second was mDNA	
mercury cycle, mercury poisoning, mercury poll		messenger ribonucieic acid, see micros metabolic discase, heredity, porphyria genetic discase 1969 Ju	George 111 aly p 38-46 [1149]
mercury cycle, mercury possesses	ition, Minamata disease		ily p 30-40 i
	ution, Minamata disease 1971 May p 15-21 [1221]	11 1	fuar marine
mercury delay line, computer memory, terroelect	inc crystal memory.	metabolic fuel, biological wax, copepod lipids coral ree	f wax marine ar p 76-86 [1318]
mercury delay line, computer memory, ferroelect ferrite cores, magnetic tape, magnetic drum	1955 June p 92–100	metabolic fuel, biological wax, copepod lipids coral ree	f wax marine ar p 76-86 [1318]
mercury mirror, atomic clock, ammonia maser, e	ric crystal memory, 1955 June p 92–100 resium clock, maser, 1957 Feb. p 71–82 [225]	metabolic fuel, biological wax, copepod lipids coral rec wax, food chain metabolic hormones, p	f wax marine ar p 76-86 [1318]
mercury mirror, atomic clock, ammonia maser, e	ric crystal memory, 1955 June p 92–100 resium clock, maser, 1957 Feb. p 71–82 [225]	metabolic fuel, biological wax, copepod lipids coral ree wax, food chain metabolic hormones, p growth hormone	wax marine ar p 76-86 [1318]
mercury mirror, atomic clock, ammonia maser, e zenith tube, improvements on sidereal time mercury poisoning, mercury cycle, mercury pollt	10 crystal memory, 1955 June p 92–100 ressum clock, maser, 1957 Feb p 71–82 [225] ruon, Minamata disease 1971 May p 15–21 [1221]	metabolic fuel, biological wax, copepod lipids coral ree wax, food chain metabolic hormones, p growth hormone metabolic information, celt communication genetic code	you Uct p = 22 communication y = 42-5t [1257]
mercury mirror, atomic clock, ammonia maser, e zenith tube, improvements on sidereal time mercury poisoning, mercury cycle, mercury pollt	10 crystal memory, 1955 June p 92–100 ressum clock, maser, 1957 Feb p 71–82 [225] ruon, Minamata disease 1971 May p 15–21 [1221]	metabolic fuel, biological wax, copepod lipids coral ree wax, food chain metabolic hormones, p growth hormone metabolic information, celt communication genetic code	you Uct p = 22 communication y = 42-5t [1257]
mercury mirror, atomic clock, ammonia maser, e zenith tube, improvements on sidereal time mercury poisoning, mercury cycle, mercury pollt	171c crystal memory, 1955 June p 92–100 1955 June p 92–100 1957 Feb p 71–82 [225] 1000, Minamata disease 1971 May p 15–21 [1221] 1949 Dec p 28 1971 May p 15–21 [1221]	metabolic fuel, biological wax, copepod lipids coral receivax, food chain 1975 Minetabolic hormones, p growth hormone 1972 September 1972 Sep	you Uci p = 22 communication in p 42-5t [1257] perature annual [1257]
ferrite cores, magnetic tape, magnetic mercury mirror, atomic clock, ammonia maser, or zenith tube, improvements on sidereal time mercury poisoning, mercury cycle, mercury polluform fingerprint dust mercury pollution, mercury cycle, mercury poisoners, pollution, mercury cycle, mercury poisoners.	171c crystal memory, 1955 June p 92–100 1955 June p 92–100 1957 Feb p 71–82 [225] 1900, Minamata disease 1971 May p 15–21 [1221] 1949 Dec p 28 1971 May p 15–21 [1221] 1970 Sept p 82	metabolic fuel, biological wax, copepod lipids coral rec wax, food chain metabolic hormones, p growth hormone metabolic information, celt communication genetic code nerve impulse, hormonal action metabolic rate, hibernation thermoregulation body tem behavior hown fat, altitude adaptation Quechua Indians accti	you Uct p = 22 communication in p 42-5t [1257] persiure animal 250 Dec p 18-21 while the altitude
mercury mirror, atomic clock, ammonia maser, e zenith tube, improvements on sidereal time mercury poisoning, mercury cycle, mercury pollt	171c crystal memory, 1955 June p 92–100 1957 Feb p 71–82 [225] 1900, Minamata disease 1971 May p 15–21 [1221] 1949 Dec p 28 1971 May p 15–21 [1221] 1970 Sept p 82 1971 nucleus, cytoplasm	metabolic fuel, biological wax, copepod lipids coral rec wax, food chain metabolic hormones, p growth hormone metabolic information, celt communication genetic code nerve impulse, hormonal action metabolic rate, hibernation thermoregulation body tem behavior hown fat, altitude adaptation Quechua Indians accti	you Uci p to 22 communication of p 42-5t [1257] perature animal 250 Dec p 18-21 malization deer

metabolism, alcoholism, drunkeness, physiological individuality	metal ions, chelation, sequestering, ring compounds, porphyrin ring,
conditions effect of alcohol 1948 Dec p 50–53	organometallic compounds, metal-poisoning antidote, chemical
biochemistry, enzymes, virus, citric-acid cycle, co-enzymes, sulfa drugs,	separation 1953 June p 68–76
antibiotics, science, biochemistry 1900-1950 1950 Sept p 62-68	metal ores, Earth crust, mining, natural resources, natural concentration
hummingbird, body temperature, thermoregulation, hibernation,	of metals 1960 June p 146–154
surface-to-volume ratio 1953 Jan p 69–72	metal-oxide semiconductors, computer memory, integrated circuits,
teeth, enamel, dentin, fluoridation 1953 June p 38–42	microelectronics, large-scale integrated circuits, logic circuits,
alcohol tolerance, drug abuse, liver function, acetaldehyde	transistor 1970 Feb p 22–31
1953 Dec p 86–90	integrated circuits, microelectronics, silicon 'chips', transistor
shrews, body temperature, thermoregulation, surface-to-volume ratio	1973 Aug p 48–57
1954 Aug. p 66–70	integrated circuits, microcomputers, microelectronics, microprocessors,
oxygen starvation, erythrocyte, acclimatization, attitude adaptation	minicomputers, silicon 'chips' 1975 May p 32-40
1955 Dec p 58-68	integrated circuits, logic gates, microelectronics, semiconductor
cell organelle, mitochondria, enzymes, cell metabolism, cell membrane,	technology, transistor 1977 Sept p 70-81 [375]
'powerhouse of the cell' 1957 July p 131-140 [36]	metal poisoning, chelation, hemochromatosis, lead poisoning,
ruminants, symbiosis, cellulose digestion, anaerobic metabolism,	pharmacology, drug action, Wilson's disease, heavy metal poisoning
fermentation, how cows digest grass 1958 Feb p 34-38	bone cancer, salicylates, aspirin, cancer therapy, chemotherapy,
hibernation, hypothermia, surgery, shock, body temperature, artificial	medical exploitation of chelates 1966 May p 40-50
lowering of body temperature for surgery and shock	metal-poisoning antidote, chelation, metal ions, sequestering, ring
1958 Mar p 104-114	compounds, porphyrin ring, organometallic compounds, chemical
arthritis, gout, colchicine, chemistry of gout 1958 June p 73-81	separation 1953 June p 68–76
adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,	metal-powder alloying, alloying, mechanical alloying, metallurgy
cold adaptation, neonatal physiology, heat production in newborn	1976 May p 40–48
animals, including man 1965 Aug p 62-65 [1018]	metal prospecting, moss leads to copper 1955 Oct p 52
salmon, fish migration, swimming, laboratory observation of energy	metal refining, by chemistry 1952 June p 32
production by salmon 1965 Aug p 80-85 [1019]	metal stamping, circle grid analysis, crystal structure, sheet-metal
circulatory system, thermoregulation, cold adaptation, fur, insulation	production, strain hardening, metal structure 1976 Nov p 100–108
1966 Jan p 94-101 [1032]	metal-surface defects, exoelectrons, Geiger counter, metal fatigue, wear 1977 Jan p 74-82 [350]
bird flight, energy output, wind tunnel experiments, gull, budgerigar 1969 May p 70-78 [1141]	metal 'whiskers', surface defects, crystal growth, lattice defects, growth of
calcitonin, thyroid, calcium metabolism, bone, human physiology,	metal whiskers 1960 July p 64-72
hormone, recognition and characterization of calcitonin	dislocation-free metals 1958 Oct p 56
1970 Oct p 42–50	metal with memory, Nitinol 1971 Mar p 47
diet, fasting, human nutrition, starvation, kwashiorkor, marasmus,	metallic bonds, solid state physics, crystal structure, X-ray diffraction,
physiology of starvation 1971 Oct p 14-21 [1232]	ionic bonds, covalent bonds, molecular bonds, energy levels, the
animal behavior, cryptobiotic animals, anaerobic metabolism,	nature of solids 1952 Dec p 39-49 [249]
suspended animation, Nematoda, Rotifcra, Tardigrada	metalliding, corrosion tunnel, stress-corrosion failure, crystal structure,
1971 Dec p 30-36	dislocations 1966 Feb p 72–81
'cold-blooded' animals, ectothermy, heterothermy, insect flight, sphinx	materials technology, superplasticity, microduplex structure,
moths, temperature regulation, Mandura sexta warm-up mechanisms	thermomechanical processing, grain structure metals that can be
1972 June p 70–77 [1252]	formed like plastics 1969 Mar p 28–35
birds, dinosaurs, ectothermy, endothermy, birds descended from	alloys, materials technology, diffusion, surface alloy, molten fluoride,
dinosaurs 1975 Apr p 58–78 [916]	electrolysis 1969 Aug p 38–46
sports, footracing, human physiology, athletics, psychology, running	metallo-enzymes, elements, living matter, essential elements, fluorine,
records, Aesop principle 1976 June p 109–119 amino-acid deficiencies, dietary requirements, human nutrition, food	silicon, tin, vanadium, list of elements essential to life lengthened to
and agriculture 1976 Sept p 50–64	24 1972 July p 52-60 metallo-organic process, ammonia manufacture, biological nitrogen
Krebs cycle 1957 July p 66	fixation, Haber process, nitrogen fixation 1974 Oct p 64-70
alcohol produced internally 1973 Sept p 66	metalloid element, boron, crystal structure, borane fuels, properties and
see also cell metabolism, aerobic metabolism and the like	applications of boron compounds 1964 Jan p 88–97
metabolism control, goiter, thyroid, thyroxin, pituitary gland, role of	metalloiding, surface-alloying by diffusion 1967 Sept p 106
thyroid in governing metabolism 1960 Mar p 119–129	metalloids, prediction of alloy properties 1964 Aug n 40
metabolism of drugs, alcohol metabolism, detoxification, drug	metallurgical engineering, steel production, continuous casting, economic
inactivation, enzyme, liver function, cirrhosis	advantages 1963 Dec p 74-88
1975 June p 22–31 [1322]	splat cooling 1960 Aug p 72
metabolism of mammals, algae deuterium, reaction kinetics, penicillin	electroshaping metals 1961 Ian p. 84
mold, heavy water biology 1960 July p 106-116	metallurgy, titamium, ilmenite, properties and applications of titanium
metabolite antagonists, imitative drugs, sulfa drugs, folic acid, para- aminobenzoie acid 1951 Apr p 60-63	1949 Apr p 48–51 [258]
metal artifacts, Turkey, metallurgy, copper, Neolithic archeology, village	air pollution, catalysis combustibility, fly ash, dust storms, fine
farming communities man's first use of metals 7,500 B C	particles 1950 Dec p 50-53 crystal structure, zone melting, vacuum furnace, pure metals
1970 Mar p 50–56	
metal casting, alloys, crystal structure, dendrites, metallurgy,	Etruscans bronze 1954 July p 36–40 1955 Nov p 90–98
solidification of metal 1974 Dec. p. 88–95	erystal structure, diffusion, wandering of atoms in crystal lattice
metal consumption, economic development, technology transfer,	1957 May = 102 110
industrialization mineral resources, natural resources and	crystal structure, stress fracture, materials technology, cracks and
technological substitution 1963 Sept. p. 128–136	11acture 1960 Feb = 04 104
metal cutting, chemical milling, etching, operation of chemical mill	New World archeology, New World archeology Old Copper culture
metal fatlgue, Beilby layer, ferrograph analysis friction, lubrication.	New West 1 4000 P. G. wax easting, metalwork, pre Columbian,
machine wear, particles of wear wear 1074 May = 82 07	New World, 4 000 B C. 1066 A == 70 01
exoelectrons Geiger counter, metal surface defects wear	anoys cutecites crystal structure, controlled cutectics, whiskers,
1077 1 74 83 13601	metal artifacts, Turkey, copper, Neolithic archeology, village farming
metal forming, electrochemical machining, electrolysis	communities, man's first use of metals 7,500 B C
crystal structure dislocations forming and 1974 Jan p 30-37	1070.14
crystal structure dislocations forging, strain hardening in metals	cry that chericality crystal structure conduction classes
1975 Apr p 116–125	mechanics quasi particle concept, Fermi surface metal properties
	1973 Jan p 88_98
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alloys, crystal structure, dendrites, metal casting, solidification of metal	ada
107/ Plan m PD Ac	solar system, relative isotope abundance, age of solar system 1960 Nov. p. 171–182 [253]
alloying, mechanical alloying, metal-powder alloying 1976 May p. 40-48	coesite, astroblemes, shatter cones, cratering, fossil Earth-catastrophes
Bronze Agc, Iron Age, ironworking history, carburizing, quenching 1977 Oct. p. 122-131 [699]	shock waves, exploding wire, streak photography generation of shock
most metallingy	waves by exploding wire 1967 May n 102-112
soldering technic 10sc Ama - ca	parigeresis, organic morecures, organic
memogic, grammar, truth, logic, philosophy, sentence, mathematical	Lineals 4-1-14
proof, antimony of the flar, proof and truth 1969 June n 62 77	asteroids, Icarus, orbital motion 1965 Apr. p. 106-115
Gödel's proof, mathematical logic, undecidable questions	lunar luminescence, moon, solar radiation. Kepler crater, solar flares,
metals, crystal structure, field-emission microscope, pictures of atoms	impact of solar protons? 1965 May p. 28-37 diamond, Canyon Diablo meteorite, iron-nickel phases, shock
1957 June p. 113–122	hypothesis, asteroids, origin of meteorites 1965 Oct. p. 26-36
crystal structure, materials technology, aligned crystals, alignment of crystals for control of mechanical and magnetic properties	comet, geomagnetism, magnetic reversals, tektites, meteoritic impacts 1967 July p 32-38
1959 Apr n 125_141	Apollo project, moon, lunar soil, regolith, structure and history of
ionizing radiation, crystal structure, solid state physics, displacement of	moon 1970 Aug. p. 14-23
crystal structure by radiation 1959 Sept. p. 200-213	albedo, asteroids, planetisimal collisions, solar system formation,
crystal structure, Fermi surface, gross properties explained as quantum effects	primordial dust cloud 1975 Jan. p. 24-33
effects 1963 July p. 110-120 crystal structure, whiskers, fiber-reinforced, dislocations, matrix,	carbonaceous chondrites, chondrites, solar system, primordial dust
composite materials, two-phase materials 1965 Feb. p. 28-37	cloud 1975 Feb. p. 30-38 potassium-argon dating 1960 Feb. p. 72
glass, materials technology, ceramics, polymers, chemical band,	potassium-argon dating 1960 Feb. p 72 Tungus forest 1961 Jan. p. 80
composite materials, atom, elements, introduction to single-topic	Earth satellite(?) 1965 Nov. p. 50
issue on materials 1967 Sept. p. 68-79	fall on English town 1966 Sept. p. 109
crystal structure, solid-state electronics, X-ray crystallography	Allende meteorite, meteorite analysis 1971 Aug. p. 46
semiconductor, nonmetals, materials technology, amorphous solid,	grazing, pyrotechnic encounter 1974 Aug. p. 50
electrical conductivity 1967 Sept. p. 80–89	crater in France 1977 Nov. p. 75
alloys, materials technology, crystal structure, grain boundaries, lattice defects, dislocations, electron 'gas', nature of metals	meteoritic amino acids, carbonaceous chondrites, chemical evolution,
1967 Sept. p. 90-100	meteoritic hydrocarbons, Oparin-Haldane hypothesis 1972 June p. 38-46 [902]
input-output analysis, interchangeability of materials, cost assessment,	meteoritic dust, meteorites, solar system evolution, ocean sediments,
price trends, materials technology, plastics, competition among	'cosmic spherules' in ocean sediments 1960 Feb. p. 123-132
materials 1967 Sept. p. 254-266	upper atmosphere cloud mesopause condensation nuclei, rocket-
crystal structure, X-ray diffraction, liquid state, physics of metals in the	borne collectors sample noctilucent clouds 1963 June p. 30-37
liquid state 1969 July p. 72–82	meteoritic hydrocarbons, carbonaceous chondrites, chemical evolution,
plate tectonics, sea-floor spreading, mid-ocean ridge, hydrothermal	meteoritic amino acids, Oparin-Haldane hypothesis 1972 June p. 38–46 [902]
extraction, manganese nodules, origin of metal deposits on ocean floor 1978 Feb. p. 54-61 [929]	metacritic impact, fossil crater, Chubb crater, cratering, astroblemes
metamorphosis, autolysis, lysosomes, enzymes, phagocytosis, pinocytosis,	1951 May p. 64-63
cellular digestive organ, 'suicide bag' 1963 May p. 64-72 [156]	tektites, strewn fields, origin of glassy stone 1961 Nov. p. 58-65 [802]
amphibian, frog, thyroxin, pituitary gland, hypothalamus,	meteorological research, U.S. National Institute of Atmospheric Research 1958 Apr. p. 50
neurosecretory system, hormone, chemistry of amphibian	1938 Apr. p. 20
metamorphosis 1966 May p. 76–88 [1042]	meteorology, upper atmosphere, stratosphere, ionosphere, radio communication, aurora, noctilucent clouds 1949 Jan. p. 30-39
see also: insect metamorphosis metazoa, Volvox, cell aggregation, between single-celled and multi-celled	radiosanda min gauga anamanatas harameter hydrometer.
organisms 1950 May p. 52–55	instrumentation of mateorology 1951 Dec. D. 04-70
meteor, photographed from above 1976 Apr. p. 61	hurricanes, typhoons, radar 1954 June p. 32-37
meteorids, asteroids, moons, solar system, planetisimals	wind, atmospheric circulation, cyclone, anticyclones, source of prevailing winds 1956 Dec. p. 40-45 [84]
1975 Sept. p. 142–159	prevailing winds 1956 Dec. p. 40-40 lovel climate, weather, solar wind, ionosphere, coronametry, Earth's weather
meteorite age, fission-track dating, geochronology, glass age, mineral age, pottery age, radioactive decay, uranium fission	and solar wind 1937 Apr. p. 130-140 (072)
1976 Dec. p. 114-122	condensation nuclei ocean foam sait narticles cloud physics, Jun.
meteorite bombardment, cratering, planetary ages, solar system evolution,	seasalt and rain 1957 Oct. p. 42-47
cratering of four inner planets as key to solar-system history 1977 Jan. p. 84-99 [351]	tornadoes, radar tracking, thermal updraft, weather forecasting 1958 May p. 31-37
meteorite composition, Earth mantle, kimberlites, plate tectonics, seismic	climate, carbon dioxide 'window', air pollution, fossil fuel, threat of
waves plumes Farth dynamics 1975 Mar. p. 50-63 [915]	'greenhouse effect' 1909 July D 41-47 (02-7)
meteorite craters, cratering, fossil crater, fossil craters in Canadian Shield	artificial satellite, iomosphere, climate, aurora borealis. Van Allen belts, orbital motion, solar particle influence on Earth atmosphere
1958 July p. 32–39 metagrite fall, observed in Peoples Republic of China 1978 Feb. p. 84	1959 Aug. p 37-43 [854]
meteorite fall, observed in Peoples Republic of China 1978 Feb. p. 84 meteorite fall of 1947 1950 June p. 42-43	wind cloud les waves soaring alider esthetic exploitation of lec
meteorite radioactivity, cosmic radiation, cosmogenic helium, solar	1961 Mar p 124-13"
auction englistion of melecrities 1973 July p. 04-73	Arctic Ocean, ocean circulation, telemetry, Northeast Passage, ice-floc islands, bathymetry, marine biology, Soviet Arctic research
meteorites, moon, cratering, tectonic processes, origin of lunar craters 1949 July p. 20-24	1961 May p 88-102
177 201 pt 20	atmospheric circulation, weather, upper atmosphere, solar radiation.
radio echo, ion cloud, spectroscopy 1951 June p. 22-28 cosmic radiation, helium content, origin of meteorites	balloon and rocket observations 1904 Mar P 02-74
	aerodynamics, air pollution, microclimate, micrometeorology, fluid dynamics, troposphere, turbulence, aimospheric phenomena near the
isotope dating, radioactive decay, solar system, Earth crust, age of solar 1957 Apr. p. 80-94 [102]	ground 1904 UCI p 02-10
	satellite weather forecasting, weather satellites, Tiros, Essa,
meteoritic dust, solar system evolution, ocean sediments, cosmic 1960 Feb. p. 123-132 spherules' in ocean sediments	Applications Technology Satellites, Nimous 1909 Jan p 32-05
	mathematical weather predictions 1957 Sept. p. 108
impact impact crater, flater, flater impact 1960 Oct. p. 128–140	artificial generation of winds 1962 Mar p 76

ethadone therapy, turning addicts into taxpayers 1968 Sept p 85	binary anthmetic, Boolean logic, integrated circuits, large-scale
ethod of exhaustion, calculus, Euclidean geometry, falling-stone	integrated circuits, logic elements 1977 Sept p 82-106 [376
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1972 June p 78–86	moving-surface memories, semiconductor memories
etric system, measurement, imperial system, metrication, U K	1977 Sept p 130–145 [378
metrication program 1970 July p 17-25 [334]	computer technology, microcomputers, microprocessors
measurement, U S changeover studied 1970 Oct p 52	1977 Sept p 146-16
measurement, advantages for industry 1972 May p 48	distributed-processing networks, computer technology
netrication, measurement, metric system, imperial system, U K	1977 Sept p 162-177 [380
metrication program 1970 July p 17-25 [334]	automatic test systems, automatic control, measuring instruments,
measurement, metric system for U S 1971 Sept p 76	control systems 1977 Sept p 180–190 [381
measurement, US metric conversion act 1976 Mar p 60A	communication technology, digital transmission, telecommunication
netropolitan area, housing, urban planning, central city, suburbs, cities,	1977 Sept p 192–209 [382
conurbation, evolution of the metropolis 1965 Sept p 64-74	computer modeling, minicomputers, personal computers, FLEX,
netropolitan region, local government, cities, New York, central city,	LOGO, SMALLTALK 1977 Sept p 230–244 [384
suburbs, Northeast Corridor, regional planning	microfibrils, collagen, elastin, fibroblasts 1971 June p 44–52 [1225
1965 Sept p 134–148	microfiche, computer technology, information storage, information
Mexican agriculture, chinampa, canals, drainage, agricultural system,	retneval, mucrorecording, electronic scanner, library science
Aztec civilization, highly productive farm plots, Aztec empire	1966 Sept p 224–24.
1964 July p 90–98 [648]	microfilaments, calcium-ion activator, cell motility, cell shape, embryonic
	development, microtubules 1971 Oct p 76–82 [1233
New World archeology, agricultural revolution, corn, urbanization,	microlayer oceanography, carbon dioxide, neuston, manne life, ocean
New World agricultural revolution 1964 Nov p 29–37 [625]	
'green revolution', agronomy, food and agriculture, maize, potatoes	surface, rainwater composition, surfactant 1974 May p 62–77 [913
1976 Sept p 128–150	micromanipulator, microsurgery, enucleation, cytosurgery
Mexico, Amerindian prehistory, Teotihuacan, Middle America, New	1950 Oct p 48–51
World archeology, pre-Columbian metropolis 1967 June p 38-48	cytosurgery, cell nucleus, on transplanting nuclei 1952 Apr p 58-64
Mexico City, poverty, buying habits, sociology, culture of poverty	micrometeorites, interplanetary space, Mars, Mariner 4, magnetosphere,
1969 Oct p 114–124 [651]	trapped radiation, atmosphere, solar wind, cosmic radiation, space
micro-machining, metals, semiconductors 1956 Apr p 62	exploration 1966 May p 62–72
microanalysis, neutron activation, trace elements, radionuclides, decay	iron from a comet 1949 Dec p 30
properties 1967 Apr p 68–82	micrometeorology, aerodynamics, air pollution, microclimate, fluid
microbiology, Hooke, astronomy, science history, life and work of Robert	dynamics, troposphere, meteorology, turbulence, atmospheric
Hooke 1954 Dec p 94–98	phenomena near the ground 1964 Oct p 62-76
microchemistry, painting, art restoration, X-ray, spectroscopy, science in	microorganisms, bacteriology, PPLO, virus, electron microscopy,
the art museum 1952 July p 22–27	cytology, smallest free-living cells 1962 Mar p 117-126 [1005]
microcircuit fabrication, electron optics, computer-controlled fabrication,	micropaleontology, glaciation, pollen chronology, living records of the ice
silicon 'chips', computer technology, integrated circuits	age 1949 May p 48-51 [834]
1972 Nov p 34-44	foraminifera, ocean floor, climate history recorded in ocean sediments
microclimate, aerodynamics, air pollution, micrometeorology, fluid	1962 July p 96–106 [856
dynamics, troposphere, meteorology, turbulence, atmospheric	microprocessors, integrated circuits, metal-oxide semiconductors,
phenomena near the ground 1964 Oct p 62–76	microcomputers, microelectronics, minicomputers, silicon 'chips'
air pollution, cities, climate, heat emission, heat pollution, infrared	1975 May p 32-40
photography, heat island, climate of cities	computer technology, microcomputers, microelectronics
1967 Aug. p 15–23 [1215]	1977 Sept p 146–161
cooling towers, heat exchange, industrial cooling, energy technology	in automobiles 1975 Aug p 48
1971 May p 70–78	price still falling 1976 Sept p 66
microcomputers, integrated circuits, metal-oxide semiconductors,	micropulsations, Earth core, electromagnetic waves, magnetic field, Earth
microelectronics, microprocessors, minicomputers, silicon 'chips'	mantle, longest electromagnetic wave 1962 Mar p 128-137
1975 May p 32–40	microrecording, computer technology, information storage, information
computer technology, microprocessors, microelectronics	retrieval, electronic scanner, microfiche, library science
1977 Sept p 146–161	1966 Sept. p. 274_242
microduplex structure, materials technology, metalliding, superplasticity,	microscopy, X-ray, optical resolution, X-ray microscope projected
thermomechanical processing, grain structure, metals that can be	1949 Mar n 44_47
formed like plastics 1969 Mar p 28–35	field-emission microscope, pictures of atoms 1952 May p 58-62
microelectronics, integrated circuits electronic components industry,	topographic microscope 1954 Aug n 54_50
transistor, silicon 'chips' 1965 Nov p 56-70	ultraviolet radiation, 'llying spot' microscope, ultra-microscopy of
binary anthmetic, computer technology, integrated circuits, switching	living cells 1958 May p. 38_43
elements, logic circuits, computer memory, hardware of computer	holography, laser, white-light reconstruction, color holography
1966 Sept p 74–85	1968 Feb p 40 48
oxide semiconductors, magnetic core, integrated circuits, computer	atom visibility, electron microscopy, scanning electron microscope
memory, advent of integrated-circuit semiconductor memories	1971 Apr p 26 35
1967 July p 18–31	brain circuitry, nerve signals, nerve structure, olfactory system staining
computer memory, integrated circuits, metal-oxide semiconductors,	reconsiques. Goigi stain, Nissi stain 1971 July n. 48_60 (1227)
large-scale integrated circuits, logic circuits, transistor	scanning electron microscope, light microscope, transmission electron
1970 Feb p 22-31 accelerated ion technique, ion implantation, semiconductor, 'doping'	inicroscope, three-demensional pictures by scanning electron
	inicro-cope 1972 Jan p 54-69
integrated circuits, metal-oxide semiconductors silicon chips.	minus depth of rocus 1959 Jan p 69
transistor 1073 Aug n 48 57	microscisins, scisinology, weather earthquakes 1040 Feb = 49.45
integrated circuits metal-oxide semiconductors, microcomputers	increasing, protein synthesis ribosome, RNA cytology, recognition of
microprocessors municomplifers silicon tables. 1075 Mar. p. 22-40	TOO OHIC AT THE OF DIDICITE CENTRACTE THAT I THE TAX FOR THE
Citationic Circuit v. mickidica Cifallife for hadroned annotation	not beed down
silicon 'chips' introduction to single-topic issue on nucroelectronics	
	meroniampulator, enucleation, cytosurgery
integrated circuits to die pales metal-oxide semiconductors	laser, cell physiology, laser lesions, cell organelle
semiconductor technology, transistor 1977 Sept. p. 70-81 [375]	or, ben particlegy, laser lesions, cell organelle
	1970 Feb p 98-110 [1170]
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alloys, crystal structure, dendrites, metal casting, solidification of metal	solar austom, miles out a significant and a sign
1074 Dec = 99 as	solar system, relative isotope abundance, age of solar system 1960 Nov. p. 171–182 [253]
alloying, mechanical alloying, metal-powder alloying 1976 May p 40-48	cocsite, astroblemes, shatter cones, cratering, fossil Earth-catastrophes
Bronze Agc, Iron Age, ironworking history, carburizing, quenching 1977 Oct p 122-131 [699]	shock waves, exploding wire, streak photography, generation of shock
fiber metallurgy 1956 Jan p 50	waves by exploding wire 1962 May p 102-112
soldering teennic 1056 Apr n 64	extralerrestrial life, chondrites, pangenesis, organic molecules organic
metalogic, grammar, truth, logic, philosophy, sentence, mathematical	molecules in carbonaceous chondrites 1963 Mar p 43-49
proof, antimony of the liar, proof and truth 1969 June p 63-77	Earth, tektites, moon, moon as source of tektites 1964 Feb p 50-57
Gödel's proof, mathematical logic, undecidable questions	asteroids, Icarus, orbital motion 1965 Apr p 106-115
1971 Mar n 50_60	lunar luminescence, moon, solar radiation, Kepler crater, solar flares
metals, crystal structure, field-emission nucroscope, pictures of atoms	impact of solar protons? 1965 May p 28-37 diamond, Canyon Diablo meteorite, iron-nickel phases, shock
1957 June n. 113_122	hypothesis, asteroids, origin of meteorites 1965 Oct p 26-36
crystal structure, materials technology, aligned crystals, alignment of	comet, geomagnetism, magnetic reversals, tektites, meteoritic impacts
crystals for control of mechanical and magnetic properties	1967 July p 32-38
1959 Apr p 125–141	Apollo project, moon, lunar soil, regolith, structure and history of
ionizing radiation, crystal structure, solid state physics, displacement of	moon 1970 Aug p 14-23
crystal structure by radiation 1959 Sept p 200–213	albedo, asteroids, planetisimal collisions, solar system formation
crystal structure, Fermi surface, gross properties explained as quantum	primordial dust cloud 1975 Jan p 24-33
effects 1963 July p 110–120	carbonaceous chondrites, chondrites, solar system, primordial dust
crystal structure, whiskers, fiber-reinforced, dislocations, matrix,	cloud 1975 Feb p 30–38
composite materials, two-phase materials 1965 Feb p 28-37	potassium-argon dating 1960 Feb p 72
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composite materials, atom, elements, introduction to single-topic	Earth satellite(?) 1965 Nov p 50
issue on materials 1967 Sept p 68-79	fall on English town 1966 Sept p 109
crystal structure, solid-state electronics, X-ray crystallography,	Allende meteorite, meteorite analysis 1971 Aug. p 46
semiconductor, nonmetals, materials technology, amorphous solid, electrical conductivity 1967 Sept. p. 80-89	grazing, pyrotechnic encounter 1974 Aug p 50 crater in France 1977 Nov p 75
electrical conductivity 1967 Sept p 80-89 alloys, materials technology, crystal structure, grain boundaries, lattice	
defects, dislocations, electron 'gas', nature of metals	meteoritic amino acids, carbonaceous chondrites, chemical evolution
1967 Sept p 90-100	meteoritic hydrocarbons, Opann-Haldane hypothesis 1972 June p 38-46 [902]
input-output analysis, interchangeability of materials, cost assessment,	meteoritic dust meteorites solar system evolution ocean sediments,
price trends, materials technology, plastics, competition among	'cosmic spherules' in ocean sediments 1960 Feb p 123-132
materials 1967 Sept p 254-266	upper atmosphere, cloud, mesopause, condensation nuclei, rocket-
crystal structure, X-ray diffraction, liquid state, physics of metals in the	horne collectors sample noctificent clouds 1963 June p 30-37
liquid state 1969 July p 72-82	meteoritic hydrocarbons, carbonaceous chondrates, chemical evolution
plate tectonics, sea-floor spreading, mid-ocean ridge, hydrothermal	metacritic amino acide Operan-Haldane hypothesis
extraction, manganese nodules, origin of metal deposits on ocean	1972 June p 38-46 [902]
floor 1978 Feb p 54–61 [929]	meteoritic impact, fossil crater, Chubb crater, cratering, astroblemes 1951 May p 64-69
metamorphosis, autolysis, lysosomes, enzymes, phagocytosis, pinocytosis,	tektites, strewn fields, origin of glassy stone 1961 Nov p 58-65 [802]
cellular digestive organ, 'suicide bag' 1963 May p 64–72 [156]	
amphibian, frog, thyroxin, pituitary gland, hypothalamus,	1958 Apr p 50
neurosecretory system, hormone, chemistry of amphibian metamorphosis 1966 May p 76-88 [1042]	to all and a server have strateginhers toposphere radio
see also insect metamorphosis	communication, aurora, noctilucent clouds 1949 Jan p 30-35
metazoa, Volvox, cell aggregation, between single-celled and multi-celled	t t t
organisms 1950 May p 52–55	1951 DEC DOTTO
meteor, photographed from above 1976 Apr p 61	hurncanes, typhoons, radar 1954 June p 32-37
meteorids, asteroids, moons, solar system, planetisimals	wind, atmospheric circulation, cyclone, anticyclones source of prevailing winds 1956 Dec p 40-45 [841]
1975 Sept p 142–159	prevailing winds climate, weather, solar wind, ionosphere, coronametry, Earth's weather
meteorite age, fission-track dating, geochronology, glass age, mineral age,	and solar wind 1957 Apr p 138-148 [849]
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1976 Dec p 114-122 meteorite bombardment, cratering, planetary ages, solar system evolution,	seasalt and rain 1937 Oct p 42 "
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1977 Jan p 84–99 [351]	tornadoes, radar tracking, thermal updiant, weather 1958 May p 31-37
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waves plumes Farth dynamics 1975 Mar p 30-63 [913]	'greenhouse effect' 1959 July p 41447 (6247) artificial satellite, ionosphere, climate, aurora boreals Van Allen belis
meteorite craters, cratering, fossil crater, fossil craters in Canadian Shield	arketel motion, color particle influence on Carin atmosphere
1938 July p 32–39	1959 Aug p 37-45 (65-7
meteorite fall, observed in Peoples Republic of China 1978 Feb p 84	delived less yours spering abder esthetic exploitation of lee
meteorite fall of 1947 meteorite radioactivity, cosmic radiation, cosmogenic helium, solar	1901 Wai p 124 to
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system events and tectonic processes, origin of lunar craters	islands, bathymetry, marine biology, Soviet Arctic research 1961 May p 88-102
	and a series of the series of
radio echo, ion cloud, spectroscopy 1951 June p 22-28	tellege and cool at observations 1704 Mail 1704
cosmic radiation, helium content, origin of meteorites 1954 Nov p 36-41	- 1
	dynamics, troposphere, turbulence, atmospheric phenomena near 1964 Oct. n. 62-76
isotope dating, radioactive decay, solar system, Earth crust, age of solar 1957 Apr p 80-94 [102]	1 10 10 10 10 10 10 10 10 10 10 10 10 10
system system ocean sediments 'cosmic	satellite, weather forecasting weather satellites Tiros Essa Applications Technology Satellites Nimbus 1969 Jan p 52 (8)
meteoritic dust, solar system evolution, occan sed 1960 Feb p 123-132 spherules' in ocean sediments	Applications reclinioned backings 1953 Dec. p. 49
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impact 1960 Oct p 1252140	artificial generation of winds

spiral galaxies, interstellar hydrogen, radio astronomy	excavating machines, tunneling, rock borers, earth-moving, surface mining 1967 Nov p 74-85
1955 May p 42-48 Gum Nebula, ionized-hydrogen cloud, Strömgren sphere	iron ore, ore beneficiation, low-grade ores, hematite, taconite
1971 Dec p 20–29	1968 Jan p 28-35
galaxy structure, interstellar matter, stellar formation, supernovae,	mining industry, ocean floor, mineral resources, manganese nodules. minerals on the ocean floor 1960 Dec p 64-72
galactic dust clouds, nebulae, Gum Nebula, Bok globules 1972 Aug p 48-61	Minoan civilization, Mycenaean civilization, Hebrew civilization, Linear
galactic center, quasars, radio source, Sagittarius A, Seyfert galaxies,	A script, Linear B script, Crete, Semites, common origin of Greek
spiral galaxies 1974 Apr p 66–77	and Hebrew civilizations 1965 Feb p 102–111 Minoan culture, texts deciphered 1962 May p 82
size of galaxy 1957 July p 65 gravitational attraction of extragalatic neighbors 1958 Jan p 46	Minoan culture, texts deciphered 1962 May p 82 Minoan language, Linear B script, Homer, Greek civilization, cryptology,
galactic rotation 1960 June p 84	an account of the decipherment 1954 May p 70-75
Wilky Way galaxy, reclassified as Sc spiral 1965 Apr p 64	Minturna, Classical archeology, city as quarry, slow death of a city
Miller-Urey experiment, origins of life, high-energy radiation,	1954 July p 66~70 Miocene desiccation, evaporite minerals, fossil record, Glomar
heterotrophs, fermentation, photosynthesis, autotrophs 1954 Aug. p 44-53 [47]	Challenger findings, salt, Mediterranean as desert
Milorganite, vitamins, from Milwaukee sewage 1952 Apr p 40	1972 Dec p 26-36 [904]
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by color 1957 Oct p 48-54 alkaloids, butterfly, larvae, symbiosis, insect repellants, behavioral	Ramapithecus 1977 May p 28-35 [695] mirages, atmospheric optics, optical illusion, refraction, Fata Morgana,
adaptation, plant evolution, butterfly-plant association	walking on water 1976 Jan p 102-111
1967 June p 104-113 [1076]	mirror images, parity, symmetry, time reversal, CPT mirror
predation, plant toxins, food chain, milkweed, blue jay, predator-prey	bilateral symmetry, left-right asymmetry, central nervous system
relationship, ecology, chemical defense against predation 1969 Feb p 22-29 [1133]	1971 Mar p 96~104 [535]
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behavior 1974 Oct p 92–98	MIRV, ABM, SALT, deterrence, ICBM, arms race, counterforce strategy,
Minamata disease, mercury cycle, mercury poisoning, mercury pollution 1971 May p 15-21 [1221]	dynamics, instability of arms race 1969 Apr p 15-25 [642] ABM, arms race, ICBM, SLBM, mutual assured destruction,
mine drainage, steam engine, technology history, Watt, pumps, Industrial	counterforce strategy, strategic balance, national security
Revolution, Newcomen engine, origins of steam engine	1969 Aug p 17–29 [330]
1964 Jan p 98–107 mineral age, fission-track dating, geochronology, glass age, meteorite age,	atomic weapons, arms race, SALT, counterforce strategy, mutual assured destruction, MIRV, as key to SALT negotiations
pottery age, radioactive decay, uranium fission	1970 Jan p 19-29 [654]
1976 Dec p 114-122	ABM systems, arms race, ICBM, atomic weapons, SALT, atomic test
mineral cycles, ATP, biosphere, phosphorus cycle, sulfur cycle, sulfur bacteria, carboxylation cycle, eutrophication, mineral cycles in the	ban, strategic weapons, prospects for freeze on numbers and qualitative improvement of weapons 1971 Jan p 15-25
	arms race, missile submannes, SLBM, Polans, Trident, Poseidon
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biosphere 1970 Sept p 148-158 [1195] mineral deposits, hydrothermal extraction, mineral resources, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86-95 [909]	arms race, missile submannes, SLBM, Polans, Trident, Poseidon missile 1972 June p 15–27 [344]
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biosphere 1970 Sept p 148–158 [1195] mineral deposits, hydrothermal extraction, mineral resources, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral prospecting, magnetometer, geomagnetism, natural resources, mining, aerial prospecting 1961 June p 151–162 hydrothermal extraction, mineral deposits, mineral resources, plate tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management,	arms race, missile submannes, SLBM, Polans, Trident, Poseidon missile 1972 June p 15–27 [344] ABM, ICBM, atomic armaments, counterforce strategy, strategic weapons, mutual assured destruction arms race 1973 Nov p 18–27 mutual assured destruction, counterforce strategy, military expenditures, SALT, arms race, MARV 1974 May p 20–31 counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, CEP, accuracy as multiplier of force 1975 July p 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles.
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1955 May p 42–48 Gum Nebula, 10n1zed-hydrogen cloud, Strömgren sphere	mining 1967 Nov p 74-85 iron ore, ore beneficiation, low-grade ores, hematite, taconite
1971 Dec p 20–29	1968 Jan p 28-35 mining industry, ocean floor, mineral resources, manganese nodules,
galaxy structure, interstellar matter, stellar formation, supernovae, galactic dust clouds, nebulae, Gum Nebula, Bok globules	minerals on the ocean floor 1960 Dec p 64-72
1972 Aug p 48-61 galactic center, quasars, radio source, Sagittarius A, Seyfert galaxies,	Minoan civilization, Mycenaean civilization, Hebrew civilization, Linear A script, Linear B script, Crete, Semites, common origin of Greek
spiral galaxies 1974 Apr p 66–77	and Hebrew civilizations 1965 Feb p 102-111
size of galaxy 1957 July p 65	Minoan culture, texts deciphered 1962 May p 82 Minoan language, Linear B script, Homer, Greek civilization, cryptology,
gravitational attraction of extragalatic neighbors 1958 Jan p 46 galactic rotation 1960 June p 84	an account of the decipherment 1954 May p 70-75
Milky Way galaxy, reclassified as Sc spiral 1965 Apr p 64	Minturna, Classical archeology, city as quarry, slow death of a city
Miller-Urey experiment, origins of life, high-energy radiation, heterotrophs, fermentation, photosynthesis, autotrophs	1954 July p 66-70 Miocene desiccation, evaponte minerals, fossil record, Glomar
1954 Aug p 44–53 [47]	Challenger findings, salt, Mediterranean as desert
Milorganite, vitamins, from Milwaukee sewage 1952 Apr p 40	1972 Dec p 26–36 [904] Miocene fossils, hominid, human evolution, primate evolution,
mimicry, birds, camouflage, caterpillars, behavioral adaptation, defense by color 1957 Oct p 48-54	Ramapithecus 1977 May p 28-35 [695]
alkaloids, butterfly, larvae, symbiosis, insect repellants, behavioral	mirages, atmospheric optics, optical illusion, refraction, Fata Morgana,
adaptation, plant evolution, butterfly-plant association 1967 June p 104-113 [1076]	walking on water 1976 Jan p 102–111 mirror images, parity, symmetry, time reversal, CPT mirror
predation, plant toxins, food chain, milkweed, blue jay, predator-prey	1965 Dec p 28-36 [301]
relationship, ecology, chemical defense against predation	bilateral symmetry, left-nght asymmetry, central nervous system 1971 Mar p 96–104 [535]
birds, finches, parasitism, sexual behavior, widow birds, animal	MIRV: multiple independently-targetable reentry vehicle
behavior 1974 Oct p 92–98	MIRV, ABM, SALT, deterrence, ICBM, arms race, counterforce strategy,
Minamata disease, mercury cycle, mercury poisoning, mercury pollution 1971 May p 15-21 [1221]	dynamics, instability of arms race 1969 Apr p 15-25 [642] ABM, arms race, ICBM, SLBM, mutual assured destruction,
mine drainage, steam engine, technology history, Watt, pumps, Industrial	counterforce strategy, strategic balance, national security
Revolution, Newcomen engine, origins of steam engine 1964 Jan p 98-107	1969 Aug p 17–29 [330] atomic weapons, arms race, SALT, counterforce strategy, mutual
mineral age, fission-track dating, geochronology, glass age, meteonte age,	assured destruction, MIRV, as key to SALT negotiations
pottery age, radioactive decay, uranium fission 1976 Dec p 114-122	1970 Jan p 19–29 [654] ABM systems, arms race, ICBM, atomic weapons, SALT, atomic test
mineral cycles, ATP, biosphere, phosphorus cycle, sulfur cycle, sulfur	ban, strategic weapons, prospects for freeze on numbers and
bacteria, carboxylation cycle, eutrophication, mineral cycles in the	qualitative improvement of weapons 1971 Jan p 15–25
biosphere 1970 Sept p 148-158 [1195] mineral deposits, hydrothermal extraction, mineral resources, plate	arms race, missile submannes, SLBM, Polans, Trident, Poseidon missile 1972 June p 15–27 [344]
tectonics, mineral prospecting, non-ferrous ore	ABM, ICBM, atomic armaments, counterforce strategy, strategic
1973 July p 86–95 [909] mineral prospecting, magnetometer, geomagnetism, natural resources,	weapons, mutual assured destruction, arms race 1973 Nov p 18-27 mutual assured destruction, counterforce strategy, military
mining, aerial prospecting 1961 June p 151–162	expenditures, SALT, arms race, MARV 1974 May p 20-31
hydrothermal extraction, mineral deposits, mineral resources, plate tectonics, non-ferrous ore 1973 July p 86–95 [909]	counterforce strategy, atomic weapons, cruise missiles, arms race, missile accuracy, strategic weapons, C E P, accuracy as multiplier of
mineral resources, Amazon, tropical rain forest, developing countries,	force 1975 July p 14–23
resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14	missile accuracy, counterforce strategy, atomic weapons, cruise missiles, MIRV, arms race, strategic weapons, C E P, accuracy as multiplier
ocean floor, manganese nodules, mining industry, minerals on the	of force 1975 July p 14–23
ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal	missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct p 27-35 [3]9]
consumption, natural resources and technological substitution	test, military technology, fallout shelters 1964 Oct p 27-35 [319] missile submarines, arms race, SLBM, M1RV, Polans, Trident, Poseidon
1963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of	missile 1972 June p 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured
the ocean 1969 Sept p 166-176 [885]	destruction, SLBM, sonar, acoustic detection
hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86-95 [909]	1972 July p 14–25 [345]
mineral separation, flotation, surfactant, bubbles collector ions ore	'mission-oriented' funding agencies, fundamental research curiosity
beneficiation 1956 Dec p 99-110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals	science funding, university science, N S F, introduction to a single-
1962 Oct p. 38-47 [854]	topic issue on fundamental questions in science 1953 Sept p 47-51 N S F, science funding, institutional grants, science policy.
minicomputers, integrated circuits, metal-oxide semiconductors, microcomputers, microclectronics, microprocessors, silicon 'chips'	fundamental research, project grants, university science, problems in
1975 May p. 32-40	government support of science in the U S science funding, project funding decried 1952 Dec p 38
computer modeling microelectronics, personal computers FLEX, LOGO SMALLTALK 1977 Sept p 230-244 [384]	science funding, independence of scientist 1953 May p. 53
minimax, games theory, decision theory, pure strategy, mixed stratgey,	science funding, mission-oriented research Mississippi river, meanders alluvial valley, deltas, floods
worst-case analysis 1955 Feb p 78–83 mining, oil shales, shale rotors energy resources fossil fuel oil from	1051 Apr p. 18 22
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Mississippian culture, New World archeology, mound builders agricultural revolution, statistical scriation, pre-Columbian
Larth crust metal ores natural resources natural concentration of metals 1960 June p 146-154	MISSISSIPPI Valley on verge of urban revolution 1052 Mary - 22, 25
rypsum Amerindian New World archeology, prehistoric man in	Amerindian burial mounds Cahokia, New World archeology
magnetometer, geomagnetism, natural resources mineral prospecting.	Pennsylvani periou, coal, 105511, 110ra. Pennsylvanian panad
aerial prospecting 1961 June p 151-162	Carboniferous period, tropical flora, deposition of coal
	1948 July p 46-51

nitochondria, cell organelle, metabolism, enzymes, cell metabolism, cell	mode, statistics, median, sampling, sequential sampling
membrane, 'powerhouse of the cell' 1957 July p 131-140 [36]	1952 Jan p 60-63
cell membrane, electron microscopy, endoplasmic reticulum, myelin	'inodel atom', positronium, positron, electron, quantum electrodynamics 1954 Dec p 88-92
sheath, nuclear membrane, electron microscope study of membranes in cell 1962 Apr p 64-72 [151]	atomic nucleus, nuclear structure, neutron cross sections, 'cloudy
ATP synthesis, electron transfer, oxidation membrane, mitochondrion,	crustal ball' 1955 Dec p 84-91
proposed structure of mitochondrion 1964 Jan p 63-74	modified virus, bacteriophage, virology, recombinant DNA, proving
cytoplasmic inheritance, maternal inheritance, extranuclear DNA,	1955 Apr p 92-98 [24]
chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002]	modular design, automatic manufacture, electronic equipment, Project Tinkertov 1955 Aug. p 29-33
chloroplast, symbiosis, cell organelle, DNA, prokaryote origin, protein synthesis, plastids, cell evolution, extra-nuclear genetic activity in	Tinkertoy 1955 Aug. p 29-37 modulators, communication technology, laser, pulse-code modulators
cell 1970 Nov p 22–29 [1203]	electron ontics. Korr effect, Pockel's effect, polarization, mountain
cell evolution, cell organclle, chloroplast, endosymbiosis, eukaryotic	of laser light 1965 June p 17-23
cells, symbiosis, prokaryotic cells, algae, cilia, flagella, plastids	Mogolion culture, New World archeology, Pine Lawn Valley, Cochie
1971 Aug p 48–57 [1230]	culture, 2500 B C to 1300 A D in New Mexico 1951 July p 46-51 Mohenjo-Daro, Harappan civilization, Indus valley, archeology, Sumer 1953 Nov. p. 42-48
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nitochondrion, ATP, citric-acid cycle, cell metabolism, mitochondrion as	archeology, Harappan civilization, Indus valley, floods as cause of 1966 May p 92-100
site of hiological oxidation 1958 July p 56-62	demise 1300 Maj y 22 1
cytology, energy transformation, ATP, citric-acid cycle, glycolysis,	Mohole, Earth crust, Mohorovicic discontinuity, Earth mantle, technology, objectives of Mohole Project 1959 Apr p 41-49
oxidative phosphorylation, membrane, energy transformation in the	1958 Dec P 30
ATP, chloroplast, photosynthesis, cell metabolism, glucogenesis, citric-	1 11 15 17 monals
acid cycle, glycolysis, oxidative phosphorylation, cytology, cellular	Earth's mantle 1959 Aug p 66 Earth's mantle 1961 May p 76
transformation of energy 1961 Sept. p. 62-73 [91]	practice flores difficu
ATP synthesis, mitochondria, electron transfer, oxidation membrane,	Opper Manue Flojeci 1966 July p 48
proposed structure of mitochondrion 1964 Jan p 63-74	program in doubt Mohole project, mantle-drilling site selected 1965 Mar p 54
ATP, glycolysis, cell membrane, enzymes, oxidative phosphorylation, cell metabolism, mitochondrial membrane	Mohorovicic discontinuity, Earth crust, Mohole, Earth manus,
[968 Feb p 32-39 [1101]	technology, objectives of Monoie Project
ATP oxidative phosphorylation, cell membrane, active transport,	Earth mantle, plastic zone, seismology, isostatic equilibrium basali
chloroplast formation of the energy-exchange molecule in the cell	plastic zone at deput between 5 1959 Oct p 81
1978 Mar p 104-123 [1383]	Mohs scale, corundum, crystal structure, cubic boron mittae, and 62-70
mitosis, mutotic apparatus, cytology, chromosome, meiosis, mechanism of cell division 1961 Sept p 100-120 [93]	nardness, materials technology
Down's syndrome, chromosomal anomalies, Klinefelter's syndrome,	hardness, materials technology Moiré patterns, Fresnel rings, optics without lens, properties and uses 1963 May p 54-63 [299]
tersomy 21 genetic defect, meiosis, gene translocation,	animal behavior ground squirrels, animal behavior
nondisjunction, afflictions associated with abnormal chromosome 1961 Nov p 66-76 [150]	Liddey minching membregulary of the first in the line
tissue culture, meiosis, plant cell differentiation, clone, generation of	mammals' adaptations to near and article
talk also argonisms from fissile cell (Carroll)	mammals' adaptations to heat and analy mold, antibiotics, plant disease, rot, blight, smut, will disease, milder 1955 June p 82-91
embryonic development, oocytogenesis, meiosis, mammanan eggs,	adhesive surface tension, elastic energy, epoxy
chromosomal anomalies, ovum, in vitro fertilization 1966 Aug p 72-81 [1047]	resins, molecular repulsion, micromechanics of adhesion 1962 Apr p 114-126
aging, fibroblasts, cell culture, somatic cells, cell, DNA replication,	g at about y aves wind
1700 1144 P 35 5 1	molecular beam, aerodynamics, supersonic llight, snock water 1958 Ian p 36-42 tunnel, ultra-high altitude aerodynamics
ovum fertilization, embryonic development, meiosis, biasiceysis,	electron theory, resonance absorption, atomic radiation, coherent
	radiation, gas molecules, nuclear magazine 1965 May p 38-74
mitotic spindle, cell reproduction, cell membrane, chromosome mitotic spindle, cell life cycle 1974 Jan p 54-64 [1288]	experiment
replication, certain a some meiosis mitosis, mechanism of	chemical accelerators, ion beam sputtering high energy chemical 1968 Oct p 44-52
mitotic apparatus, cytology, chromosottic, metosas, metosas, per p 100–120 [93] cell division	molecular biology, isotopes, radioautography, cytology, use of 1949 Feb p 30-41
cell motility, wound healing, cell tracks, embryonic development,	radioisotopes in biological research physical chemistry, interdisciplinary collaboration, antigen-antibody
tubulin, cell motion made visible to make 5 1978 Apr p 68–76 [1386]	physical chemistry, interdisciplinary conducting reaction, collaboration of G Beadle and L Pauling 1949 May p 16-21
ther calcium and life	reaction, collaboration of G Beadle and L Pauling 1949 May p 16-21
terology 1953 Aug 19 53-63	blood clotting hemaggluination, fibrinogen thrombin, fibrin role of
sea urching egg, chromosome, digitonin, centrioles 1953 Aug p 53-63 mitosis, cell reproduction, cell membrane, chromosome replication, cell 1974 Jan p 54-64 [1288]	thrombin in converting northern genetic code, mutation triplets
mitosis, cell reproduction, cell memorator, 1974 Jan p 54-64 [1288]	RNA, anticodon ribosomes triplets, wobble hypothesis 1966 Oct p 55-62 [1052]
life cycle 1952 Dec p 32 isolated intact pure strategy,	an autroscopy coherent radiation
mis od strategy, games theory, decision filedly, 1055 Feb in 78-83	molecular bonds, radar, microwaves, speciroscopy, coherent radiation resonance absorption, energy levels, quantum jumps, quantum properties to the properties of the propertie
worst-case analysis worst-case analysis M'Naghten rule, criminal law, expert witnesses insanity defense, Durham 1974 June p 18–23	resonance absorption, energy feets, quantum of maser, laser electrodynamics, time-keeping foundation of maser, laser 1948 Sept p 16-23
M'Naghten rule, Critillarian, Cycle 1974 June p 18–23 rule, psychiatrists as witnesses rule, psychiatrists as witnesses salesman's route, delight	technology to the defraction tonic bonds
managics. Koenigsberg bridges, maintriality, 1961 May p. 148-158	solid state physics, crystal structure. X-ray diffraction tonic bonds covalent bonds metallic bonds energy levels the nature of solids covalent bonds metallic bonds energy levels. The parties of the pa
and depth in maniemasses. Vlan bottle, treion know	covalent bonds metallic bonds energy levels in a manufacture of 1952 Dec p 39-49 [249]
Mobius band, topology, inner-tube eversion, Kielin three-cottages Koenigsberg bridges, four-color-map problem three-cottages 1950 Jan p 18-24	infrared spectroscopy chemical analysis molecular vibrations 1953 Oct p 42-48 [257]
Compachere Diluges, 100, 111 11 10 10 47	t
problem Mossbauer effect, relativity theory, atomic clock, resonance absorption. Mossbauer effect, relativity tested by atomic clock.	molecular cloning, gene manipulation plasmids, recommin no 24 33 [1324] Asilomar conference hazard evaluation 1975 July p 24 33 [1324] Asilomar conference hazard coulomb technology history
	to a demonstration of the second seco
Meschauer spectroscopy, atomic nucleus chemical bond energy revers	
	milecular evolution, evolution hemoglobin myoglobin molecular evolution, evolution measured by amino-acid substitution evolutionary distance measured by amino-acid substitution [975 May p. 116–118 [1012]
moas, extinction evolution hunting New Zealand (lightless State p 84-90	1.2.7.

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molecular modeling, mathematical model, computer modeling, giant	ultracentrifuge, angular momentum, ultra-high speed rotation,
molecules, cytochrome helix, myoglobin, hemoglobin, DNA	magnetic flotation, 90 million r p s 1961 Apr p 134–147
1966 June p 42–52 [1043]	mollusk shells, amino acids, fossil, bone, paleontology, paleobiochemistry 1956 July p 83-92 [101]
molecular motion, crystal structure, computer modeling, particle motion	genetic variation, gene mutation, natural selection, polymorphism.
key to bulk properties of materials 1959 Oct p 113-126 [265]	biological diversity, discontinuous variation
Kerr gate, laser mode-locking, quantum mechanics, Raman clock,	1975 Aug p 50-60 [1326]
ultrafast phenomena, picosecond molecular processes 1973 June p 42-60	mollusks, animal behavior, central nervous system, neurophysiology
molecular orbitals, carbenes, carbon chemistry, chemical reaction,	1971 Feb p 68–75 [1212]
reactive intermediates 1976 Feb p 101–113	bivalves, clams, marine life, symbiosis 1975 Apr p 96–105
molecular orbits, molecular structure, electron shells, computer modeling,	momentum, matter, energy, high-energy physics, conservation law,
quantum chemistry, computer graphics 1970 Apr p 54-70	conservation laws in particle physics 1963 Oct p 36-45
molecular physics, electromagnetism, intermolecular force, Coulomb	monarchy, Kuanyama Ambo, anthropology, social controls, murder
force, measurement of intermolecular force between macroscopic	1950 Oct p 52–55
bodies 1960 July p 47–53	money, commerce, bride price, cultural anthropology, red-feather money,
molecular replication, self-reproducing machine, automata theory,	Southwest Pacific-Solomon Islands culture 1962 Mar p 94-104
computer technology, machine models of molecular assembly	Mongol conquests, cavalry, war, Chingis Khan, frontier history, nomatic
1959 June p 105–114 [74]	civilization, Chingis Khan, biography 1963 Aug. p 54–68
molecular repulsion, adhesive, molecular attraction, surface tension,	mongolism, see Down's syndrome monkey, primate behavior, Japanese macaques, primate societies,
elastic energy, epoxy resins, micromechanics of adhesion 1962 Apr p 114-126	protocultural behavior, social status 1976 Oct p 96–106 [1345]
	sex pheromone 1971 Sept p 76
molecular rotation, klystron, microwaves, spectroscopy, laboratory applications of microwaves 1957 May p 46-53	monkey brain, holography, memory, learning, brain function, interference
applications of microwaves 1957 May p 46-53 molecular science, polymers, addition polymers, condensation polymers,	patterns, holographic model, neurophysiology of remembering
introduction to single-topic issue on 'giant molecules'	1969 Jan p 73–86 [520]
1957 Sept p 80–89	monochromator, fission reactor, neutron beam, neutron diffraction,
polymers, addition polymers, condensation polymers, introduction to	neutron flux, reactor as research instrument
single-topic issue on 'giant molecules' 1957 Nov p 80–89	1953 Aug. p 23-29 [219]
molecular sieves, zeolites, ion exchange, adsorption, separation of similar	monomolecular films, molecular structure, properties and uses of
molecules 1959 Jan p 85-94	monomolecular films 1961 Mar p 152–164
molecular signals, cell membrane, intercellular communication, salivary	thin-film optical devices, interferometry, fluorescence, wave motion,
gland, epithelium, membrane permeability, junctions in cell	light waves, fatty acids 1970 Mar p 108–119
membrane 1970 May p 78–86 [1178]	crystal surfaces, molecular surface films, two-dimensional crystals
molecular size, light scattering, photometry, aerosol, hydrosol, Tyndall spectra, measurement 1953 Feb p 69-76	1973 May p 30-40 monosaccharides, cellulose, cell wall, plant cell, polysaccharides
spectra, measurement 1953 Feb p 69-76 molecular spectra, astrochemistry, interstellar matter, space exploration,	1975 Apr p 80–95 [1320]
local galaxy 1973 Mar p 50-69	monsoons, economic development, irrigation, Mekong river, floods,
molecular structure, chemistry, chemical bond, crystal structure, protein	hydro-engineering, rice, Mekong river plan, United Nations
structure, chemical kinetics, science, chemistry 1900-1950	1963 Apr p 49–59
1950 Sept p 32-35	'green revolution', India, food and agriculture, technology transfer,
polymers, elastomers, X-ray diffraction, mechanical properties of giant	irngation, fertilizers, rice, agronomy, wheat, hybrid crop plants
molecules 1957 Sept p 120–134	1976 Sept p 154–163
magnetic resonance, nuclear magnetic resonance, spectroscopy,	monsters, Homo monstrosus, manlike creatures, mythology
magnetometer, large molecule spectroscopy	1968 Oct p 112–118
1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability
1961 Mar p 152–164	1957 Nov p 128–138 [427]
catenane, chemical topology, topological isomer, cyclic molecules, ring	Monte Carlo method, Buffon needle problem, random numbers,
molecules, linking and knotting of ring molecules	probability, mathematics 1955 May p 90–96
1962 Nov p 94-102 [286]	galactic clusters, probability, universe, gravitation, cosmology,
electron shells, computer modeling, quantum chemistry, molecular	distribution of galaxies as test of cosmologies 1956 Sept. p. 187–200
orbits computer graphics 1970 Apr p 54-70	gas kinetics, computer modeling, mathematical model, chemistry by
atomic nucleus, chemical bond, energy levels, gamma radiation,	computer 1964 July p 100–108
Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity	moon, cratering, meteorites, tectonic processes, origin of lunar craters
1972 Aug p 32-40	solar eclipse, orbital motion, Earth 1949 July p 20–24
enzyme action, lock-and-key theory, protein shape-change, protein	
structure 1973 Oct p 52–64 [1280]	manned space flight, robot spacecraft 1960 May p 61-69 interferometry, solar system, planets, ionosphere, radar astronomy,
aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds	technology and promuse of radar astronomy 1960 Aug. p 50-59
1976 Mar p 34-45	Earth, tektites, moteorites, moon as source of tektites
atomic structure, crystal structure, disclinations, dislocations, periodic	1964 Feb. p. 50-57
structures 1977 Dec p 130–145 [393]	lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger
tRNA, gene transcription protein synthesis 3-D structure of tRNA	photographs 1964 Dec p 38–47
1978 Jan p 52-62 [1377] molecular surface films, crystal surfaces, monomolecular films, two-	lunar luminescence, solar radiation, Kepler crater, solar flares
dimensional crystals 1973 May p. 20.40	metcorites, impact of solar protons? 1965 May p 28-37 extraterrestrial life, infrared astronomy, Venus, atmospheric windows,
molecular vibrations, infrared spectroscopy, chemical analysis, molecular	Mars, Jupiter, spectrometry, history and recent results of infrared
DODGS 1953 Oct p. 42_48 (257)	astronomy 1965 Aug = 20 20
molecular weight, ultracentrifuge, sedimentation, fractionation, oil drive,	lunar exploration, space exploration, lunar surface, spacecraft design,
air drive, magnetic suspension 900 000 g 60 million r p m	Kanger missions 1966 Jan n 52 67
molecular weight determination, polymers light scattering viscometer,	runar surface, telemetry, space exploration, high-resolution
photometer, now grant molecules are measured 1057 Seet p. 00.07	photography Lunar Orbiter space missions 1069 Mar - 50 70
polymers fight scattering viscometer, photometer, how giant molecules	ional exploiation, lunar landing sites manned space flight, remote
are measured 1957 Nov p 90-97	Apollo project laser reflection orbital motion lunar-ranging
•	experiment, corner reflector, Earth-Moon distance measurement
	1970 Mar p. 38-49

Apollo project, meteorites, lunar soil, regolith, stru	cture and history of	punten	
moon	3070 Aug - 34 5	- Poppy nerom, codeme, nemer commons	d drug
day's length, Earth-Moon system, lunar orbit, tides	;		136 [304]
	1077 Apr - 43 6	drug addiction, medical history, hypodermic medication, med of morphine addiction 1971 Jan	
Apollo samples, carbon chemistry, cosmology, sola	ir wind	Cellular dependence	
lunar evolution lunar soil	1972 Oct p 80-9	morphogenesis, bacteriophage, virus structure, T4 virus, DNA, n	ept p 86
lunar evolution, lunar rocks, solar system, Apollo n	nissions	It's with the reconstruction of total name and	101011014
alphonsus crater	1975 Sept p 92-10:	1967 July p 60-	74 [1079]
topography of 'back' of the moon	1959 June p 73	regeneration, biological form, cell differentiation, cellular polar	nty,
lunar atomosphere	1959 Dcc p 79	embryonic development, Hydra, morphogens	
heated by tidal forces?	1960 June p 86 1962 Oct p 63	1974 DCC 0 44-	54 [1309]
US Apollo program	1963 Sept p 83	, seathing election incloscope, flower, plant	zeli
US Apollo program	1963 Dec p 64	1700 71pt p 00 7	40 {{{{W}}}
luminous red spots observed	1964 Feb p 67	ar	the nine
Luna 9 far-side photographs	1965 Oct p 40	ones and let the big ones go 1953 May poverty as cause of death in New York City 1965 A	p 63-00
magnetic field	1966 June p 54	mortality rates, epidemiology, morbidity, economic development,	income
Surveyor! data	1966 July p 50	status, occupational health 'social medicine' environment r	
Lunar Orbiter II photographs, Copernicus crater	1967 Jan p 55	well-being behavior of disease 1949 Apr	
Surveyor 3 data	1967 June p 50	tuberculosis, tubercle bacillus, economic development, public h	
lunar gravity map	1968 Oct p 58	science history, popularization of well-being, not therapy, end	ds .
Apollo 12 lunar seismometer	1970 Sept p 86	'white plague' 1949 Oct i	30-41
Luna 16 soil sample	1970 Nov p 43		pulation
craters simulation in laboratory Apollo 15 mission	1970 Nov p 45	of US 1951 Sept p	3 28-35
as Australasian-tektite source	1971 Sept p 74	public health, morbidity, medical care, health statistics, health	21.20
heat source on moon	1971 Nov p 50	insurance, U.S. National Health Survey 1966 June p	
Apollo 16, lunar magnetism, lunar rocks	1972 Jan p 47	medical care, medicine, physical incapacitation, morbidity, hosp	alai 2
cratering clue to age	1972 June p 51 1974 July p 47	care, ambulatory care, triage, health insurance, introduction to single-topic issue on medical care 1973 Sept p	22-33
moon illusion, visual perception, apparent distance the	om: Gestalt	single-topic issue on medical care 1973 Sept p chronic illness, morbidity, medical care, vital statistics, life exper	riancy
psychology, explanation of a familiar illusion	ory, Colan	infectious disease, degenerative diseases, causes of death	7,1447-9
	ly p 120-130 [462]	1973 Sept p	76-84
'size constancy' correction	1959 Nov p 95	medical care surgery surgical specialties, malpractice claims, po	st-
moon surface, spacecraft, lunar geology, cratering, luna	r exploration,	operative negligence 1973 Sept p	90-98
structure, history, origin of moon from nine spaces	craft visitations	birth rate, population explosion, developing countries, human	an 180
1	967 Mar p 60-74	population 1974 Sept p 1	48~139
soil, robot lander, Surveyor spacecraft, surface sample		causes of death in U.S. 1967 Feb Framingham study, U.S. coronary casualty rate 1971 May	un 44
	967 Nov p 34-43	tona T.	n 50
moons, asteroids, meteorids, solar system, planetisimals		causes of death in US males 1972 Jan decline in VS coronanes 1974 Aug	p 46
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moons of Jupiter, Galileo, mertia, gravity, Galileo, biog		Macedoma 1966 Dec p 9	18-105
	949 Aug p 40-47	see also genetic mosaic	
moose, caribou, cold adaptation, rodent, polar ecology.		mosquito bite, yellow fever, insect behavior, malaria, feeding behavior	Df, 11202}
adaptation to Arctic	960 Jan p 60-68	feeding behavior of mosquitoes 1978 June p 138-146	(1222)
morbidity, disease, archeology, surgery, record of illness		mosquito repellants, chemoreceptor, mosquito targets 1975 July p 10	4-111
	949 Jan p 52-55	DDT WIA and and maken of maken	
epidemiology, mortality rates, economic development	, income status,	mosquitoes, malaria DDT, WHO, eradication of malaria 1952 June p	22-25
occupational health, 'social medicine', environment being, behavior of disease	949 Apr p 11–15	realization forms several behavior reproduction eggs larvae. Acdes Ac	gypu
public health, medical care, health statistics, mortality	rates, health	1968 Apr P 100	j] 10
	66 June p 21-29	biological clock, malaria Plasmodium, parasitism, reproduction,	11811
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medical technology, medical care, hospital care, ambul		nomination organs infant behavior neonatal disorder, sound	2601
international comparison of medical care systems	uto.)	spectrogram 1974 Mar p 64-901	2201
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most on one-third	1955 Jan p 48	population genetics mutation genetic variation evolution observ	842]
morel, mycology, fungi, wheat rust, ergot, potato blight	imanita,	sonar bats predator-prey relationship auditory perception	
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name and arrant/t atrable d\ad	Tachr b 15 oo	programme a stud percention 'Ames room', distance perception	
to the finds who realogs of the name. He was		optical illusion size perception illusions as clues to organization of 1951 Aug. p. 50	·
physostigmine, catterie, contine quinne, cocane re	113-121 [1087]	perception optical illusion neuropsychology relative vs absolute motion 1998 July p. 56.40 ta0	
muntan to this in part of baharror withdrawal sti	ndrome sell-	optical illusion neuropsychology 127 liber 1959 July p 56-60 [40	101
addiction in rat	5 Feb p 80-88		

visual perception, optical illusion, illusio	on of movement, apparent	moving-surface memories, charge-coupled devices, di	gital computer,
movement	1964 Oct p 98-106 [487]	magnetic bubble memories, semiconductor mem	lones, lept p 130–145 [378]
eye, visual perception	1975 June p 76–88 [564]	microelectronics 1977 S moving-target perception, eye, motion-perception sys	
visual perception, adjacency principle,	1978 May p 126-139 [582]	neurophysiology, visual perception 197	7 Jan p 60–73 [575]
motion-perception system, eye, moving-ta		mRNA: messenger ribonucleic acid	
neurophysiology, visual perception	19// Jan p 60-13 [3/3]	mRNA, ribosome, protein synthesis, DNA, tRNA, n	ucleus, chromosome,
motion picture film, aggression, violence,	delinquency, television,	cytology, how cells make molecules 196	61 Sept p 74-82 [92]
catharsis, effects of observing filmed	violence	gene transcription, protein synthesis, the RNA me	ssenger from gene to
	1964 Feb p 35-41 [481]	protein synthesis 196. tRNA, genetic code, DNA, nbosome, protein synt	2 Feb p 41–49 [119]
motion pictures, psychiatry, psychiatric fi	ilms in teaching and therapy 1949 Sept p 42-43	elucidated, amino acid 'dictionary' 1963	3 Mar p 80-94 [153]
motivation, achievement, aspiration, soci		amino acids, protein synthesis, formylmethionine,	
self-anchoring scale	1963 Feb p 41–45	initiation of protein synthesis 1968	36 <u>42 [1092]</u> 36
'reactive inhibition', fatigue, schizophr	enia, experiment in objective	DNA transcription, electron microscopy, gene acti	on visualized,
measurement of motivation	1963 May p 130–140		Mar p 34–42 [1267]
motor neuron, nerve conduction, synapse	e, reflex arc, membrane potential,	genetic engineering, frog eggs, gene expression, hei molecule 1976	Aug p 60–71 [1343]
inhibitory impulse, transmitter mole	1965 Jan p 56–66 [1001]	DNA, synthesis of RNA	1961 Aug p 62
at the neural synapse central nervous system, reflex arc, neu		synthetic messenger	1961 Dec p 81
contraction, nerve inhibition, intern	euron, stretch reflex, Renshaw	does same work in eukaryotes	1962 May p 78
cell, synapse	1966 May p 102-110	site of synthesis in cell	1969 Dec p 53
nervous system, vision, reflex arc, inte	rneuron, animal behavior, small	mRNA inhibition, antibiotics, actinomycin, DNA-ac	tinomycin binding, Aug p 82-91 [1303]
neuron systems as models for study	1967 May p 44–52 [1073]	protein synthesis 1974 mu meson, see muon	Aug p 62-91 [1303]
bacterial toxin, tetanus, botulism, para impulse, synapse, Clostridium tetan	o. Clostridum botulinum	mucus, glycoprotein synthesis, Golgi apparatus, gobl	let cells,
impuise, synapse, clostridium total	1968 Apr p 69–77	carbohydrate, saccules 1969 F	eb p 100-107 [1134]
motor reflex, central nervous system, me	edulla, reticular formation, brain,	mulch, dust storms, drought, dry-land farming, soil r	eclamation,
perception, neurophysiology, attent	tion and orienting mechanism in	agricultural technology, shelter belts, U S High	
brain	1957 May p 54–60 [66]	agricultural technology, herbicide, weed control, ti	1948 Aug p 7–11
motor vehicle accidents, mortality by ag- motor vehicle death rates, international	e group 1968 Mar p 54 comparison 1966 Sept p 102		Jan p 28–33 [1349]
mound builders, New World archeology.	, agricultural revolution,	petroleum resin, inexpensive mulch	1963 Apr p 84
statistical seriation, Mississippian of	culture, pre-Columbian	mules, animal husbandry, horse, donkeys, genetics a	
Mississippi valley on verge of urbai	n revolution 1952 Mar p 22-27		ec p 102-109 [1208]
Mount Ararat, Biblical archeology, Ura	rtu, Altintepe, 800 B C culture at 1967 Mar p 38-46	multiband camera, aerial photography, natural resou photography, remote sensing, remote sensing of	natural resources
Noah's landing-place Mount McKinley, cartography, photogr		photography, tender somming, remote sensing or	1968 Jan p 54-69
mountain formation, tectonic processes,	Earth mantle, convection	multinational corporations, in technology transfer	1974 Sept p 68
currents, the 'blister hypothesis'	1949 June p 16–21	multiphasic screening, national health insurance, me	
Earth crust, isostasis, granitization, o	cean basins, ocean floor, tectonic	technology, Kaiser health plan, H M O, screeni well'	ing out the worried 1970 Apr p 15-23
processes, comprehensive review o acceptance of continental drift)	1950 May p 32-41	multiple independently-targetable reentry vehicle, see	
continental evolution, geosyncline, p		multiple resistance, bacteria, drug resistance, mutation	
Apallachian foldbelt	1972 Mar p 30–38 [899]	antibiotics, transferable drug resistance	1967 Dec p 19-27
continental drift, earthquake zones, i	magnetization patterns, subduction	multiple sclerosis, autosensitivity, nervous disease, au	
zones, plate tectonics, sea floor spi geology	1972 May p 56–68 [900]	allergic mechanisms in nervous disease allergic reaction, autosensitivity, poison ivy, derma	1949 July p 16-19
continental drift, Gondwanaland, H		arthritis, delayed hypersensitivity	1960 Apr p 129–137
formation, magnetization patterns	s, plate tectonics, sea-floor	brain disease, scrapie, kuru, Chediak-Higashi synd	frome, virus disease
	1973 May p 62-72 [908]	animal vectors	1967 Jan p 110-116
Andes, earthquake distribution, plat activity	1973 Aug p 60-69 [910]	slow virus infection, myelin sheath, poliomyelitis, latent viruses	demyelinating factor, 1970 July p 40–46
dust storms, Mars, terrestrial planets		virus implicated	1976 May p 53
erosion, hydrology, solar system	1975 Sept p 106-117	multiple-star systems, planetary systems, sunlike star	rs, frequency of 'solar
earthquake zones, island arcs, lithos	pheric subduction, plate tectonics,	systems', survey of 123 nearby stars	1977 Apr p 96-104
sea-floor spreading subduction zo	ones, volcanic zones 1975 Nov p 88–98 [919]	multiplexing, communication technology, laser, signal transmission by laser 196	al transmission,
continental drift, earthquake zones,	Gobi Desert, Himalaya formation,	communication networks, communication satellite	66 Jan p 19–27 [302]
India-Furasia collision, plate tect	onics, sea-floor spreading Tibetan	switching, network theory, radio, communication	on, telephone systems.
plateau mountain glaciers, climate, glaciation :	1977 Apr p 30–41	television systems	1972 Sept p. 116-128
glaciet fluctuations	1970 June p. 100_110	multipotential cells, cancer, tumor, teratoma, gene ex	pression, plant cell,
mountains, avalanche control, snow, h	noar frost, types, causes and	multivariate analysis, stone tools tool assemblages, f	Nov p 75-83 [1024]
prevention of slides	1066 Feb n 02_101	computer analysis Paleolithic archeology, Bord	es method, stone
mouse, population control animal mi		tools as fossils of behavior 196	9 Apr n 70-84 [642]
water retention physiological adap-	1955 Dec p 92–100 pation behavioral adaptation, Mus	municipal nospitals, medical economics, medical care	e, public funds
musculus, commensal of man	1060 0~ 5 103110 (1150)	voluntary hospitals proprietary hospitals, metro	
mouse-human livbrid cells, cell hybrid somatic cells	lization, gene mapping, hybrid cells.	muon, high-energy physics strange particles, pions of	1965 Jan p 19-27
Mousterian assemblages, glaciation 1	1074 1.1. 5 36 44 (1200)	strangeness sorting out the multiplicity of parti	cles
Ukraine	1074 1 OC 105 1051	105	77 July = 73 cc (313)
moving-boundary electrophoresis, ele	cirophoresis protein separation	properties of massive negative particle 106	ergy physics
Schlieren scanning	1951 Dec p 45-53	muonium, electron elementary particles electrom	61 July p 46-55 [275]
		num	1966 Apr p 93-100
			1961 Mar p 80

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muon neutrino a partialo intercertina la parti	66 samedania
muon neutrino, a particle interaction, beta decay, neutrino	The state of the s
and the state of t	asynchronous muscle, insect flight muscles
1062 12	241 actin muscle contraction 1965 June p 76-88 [1814]
atomic nucleus, alomic structure evotes atoms 1	The solit details, protein switch, browning tropoping
physics accelerator, pions, quantum mechanics, high-energ	V musele nouge labor complete.
1072 Non 102 1	110 suppositive, manifoldy, scientific management
positronian, election, elementary particles, electromagnetism,	muscle relaxation, muscle continued to 1971 Uct p 90-103
Positioniani, alom, structure of mijonium 1062 A on a	muscle relaxation, muscle contraction, artificial muscle, Langmuir trough. ATP, actinomyosin 1952 Dec p 18-21
marder, psychoanalysis, psychopathology, 'prevention of murder'	muscle spindles muscle control muscle spindles to the
Kuanyama Amba nathawata 1949 June p 50-	servomechanisms, stretch reflex, tendon organ
Kuanyama Ambo, anthropology, social controls, monarchy	1072 16 20 27 [1210]
in Middle Ages 1950 Oct p 52-	35 muscle tissue, embryonic cells cell differentiation, cell culture done
muscial notation, bearing land	origin of muscle in embryonic development 1964 Aug p 61-66
muscial notation, hearing, loudness variations, musical dynamics, musical instruments, musician performance 1974 Nov. p. 78-	MUSHFOOM poisoning fungs much some towns Amount mellouder
muscle locomotion walking performance 1974 Nov p 78-	95 thioctic acid 1975 Mar p 90-101
muscle, locomotion, walking, primates, human evolution, bipedal walking, bone, fossil record, origin of human walking	mushrooms, fungi, plant growth, mycehum, burgeoning explained
	1956 May p 97-106
ATP, glycolysis, aerobic metabolism, oxygen debt, lactic acid	ol fungi, mushroom poisoning, toxins, Amanita phalloides, thiocic acid
formation, aerobic metabolism, anaerobic metabolism, energy	1975 Mar p 90-101
mechanisms in muscle 1972 Mar p. 84-91 1124	rapid culture of mushroom 1956 May p 62
artificial minute Life 100	
see also artificial muscle	rest in the state of the state
muscle cell, cell anatomy, spermatozoon, ovum, virus, science history,	structure of music 1959 Dec p 109-120
cytology, plant cell, connective tissue cell, introduction to single-	sound reproduction, tape recorders, speech grammaphones, auditory
topic issue on the living cell 1961 Sept p 50-61 [90	perception, engineering of sound systems 1961 Aug p 72-84
muscle contraction, ATP, actin, myosin, muscle fibril, biochemical	bass, cello, viola, violin, Chladni patterns, musical instruments physics of violins 1962 No. p 78-93
mechanism of muscle contraction 1949 June p. 22-24	musical instruments, piano, harmonics, harpsichord physics of the
physiology, nervous system, endocrine system, respiration, nerve	piano 1965 Dec p 88-99
impulse, science, physiology 1900-1950 1950 Sept b 71-76	voice, singing voice, pharynx, larynx, acoustics of singing voice
artificial muscle, Langmuir trough, ATP, actinomyosin, muscle	1977 Mar p 82-91
relaxation 1952 Dec. p. 18–21	music and mathematics, musical scale, tone ladder, Pythagorean doctrine
ATP, fermentation, citric-acid cycle, energy transformation	harmonic proportions, Kepler, vibrating string 1967 Dec p 92-103
1953 Apr p 85-92	music perception, brain hemispheres cerebral dominance left-
energy transformation, actinomyosin, mechanochemical engine	hemisphere functions, right-hemisphere functions, auditory
1954 Mar p 72–76	
cardiac arrhythmua, heart, coronary occlusion, cardiac pacemaker,	musical dynamics, hearing, loudness variations, musical instruments
operation of cardiac pump 1957 May p 74–87 [62]	
grasshopper, nerve conduction, biomechanics of leap	musical illusions, auditory perception, brain hemispheres, cerebral
1958 Jan p 30-35 electron microscopy, muscle fiber, myosin, actin, muscle fiber structure	dominance, handedness, hearing, illusions, perception, two-tone illusion 1975 Oct p 92-104 [566]
and function 1958 Nov p 66-82 [19]	illusion 1975 Oct p 92-104 [300] musical instruments, vibrating air column clarinet, oboe, flute, bassoon
actmomyosin, cyclosis, ciha, flagella, cytology, cytoplasmic streaming,	Finalish horn, sayonhone, physics of the wood winds
actin, myosin, underlying unity of cellular motion	1960 Oct p 144-154
1961 Sept p 184-204 [97]	hass, cello, viola, violin, Chladri natterns, music, physics of violins
actin, myosin, ATP, electron microscopy, sliding-filament hypothesis	1962 Nov p 70-73
1965 Dec p 18-27 [1026]	music, piano harmonics harpsichord, physics of the piano
central nervous system, reflex arc, neuromuscular control, nerve	1965 Dec p 88-99
inhibition, interneuron, motor neuron, stretch reflex, Renshaw cell,	physics of brasses, horn flare, trumpet bell, trumpet pipe 1973 July p 24-35
synapse 1966 May p 102–110	string instruments, 'following bow' experiment, Raman waves 'wolf
locust, insect flight, flight control system, nerve network, inhibitory impulse 1968 May p 83-90	note, physics of bowed string 1974 Ian p 87-95
impulse 1968 May p 83–90 ATP, calcium, barnacle, bioluminescence, aequorin, calcium ions in	hearing loudness variations musical dynamics muscial notation
muscle construction 1970 Apr p 84-93 [1175]	musician performance 1974 Not p 18-33
physiological tremor, sensory feedback 1971 Mar p 65-73 [1217]	musical scale, physics, harmony, string instruments, wind instruments
ATP, actin, myosin, actinomyosin, tropomyosin, troponin, calcium	mano, coice acoustics, agreeable melodics and physical laws
microstructure of muscle filament and biochemistry of contraction	1948 July p 32-41
1974 Feb p 58-71 [1290]	tone ladder, Pythagorean doctrine music and mathematics harmonic proportions Kepler, vibrating string 1967 Dec p 92-103
actin, muscle fibril, protein switch, tropomy osin, troponin, myosin	
calicum in muscle 1975 Nov p 36-45 [1329]	musical tones, oscillographs 1951 May p 72-77 musician performance, hearing loudness variations musical dynamics
single-unit control 1964 Mar p 38 muscle control, muscle spindles, psychophysics, sensory feedback	musical instruments muscial notation 1974 No. p 78-95
servomechanisms, stretch reflex, tendon organ	muskone, pheromones insect physiology, sexual behavior queen
1972 May p 30-37 [1249]	substance social hehavior ants Gynsy moths mice
brown organization cerebellum cerebral motor cortex, monkey	1963 May p 100-114 [157]
argaments [9/3 July p 90-103 [127]	mussels, malnutration food supply, human population hunger human
to the containing home mutatic spindle calcium and life	nutrition Incaparina cland capybara manatee developing countries unorthodox food sources 1967 Feb p 27 35 [10/5]
1951 Julie p 00-05	mutation, neurospora natural selection gene expression Mendehan
electron microscopy, muscle contraction, myosin actin muscle fiber	inheritance, genetic disease, tryptophan macin relation, one gene
19-0 11U1 P VV VIII	one enzyme hypothesis, selection for defect 1948 Sept. p. 30-49 [1]
human physiology, sarcoplasmic reticulum, electron microscopy, sarcoplasmic reticulum, functions deduced from structure	phenotype genorype gene expression 1949 (kt. p. 46-47)
1983 1141 12 144-13	population genetics evolution E coli Drosophila sexual
TP actin missin biochemical	recombination speciation natural selection genetic basis of
muscle fibril, muscle contraction ATT, activity in 1949 June p 22-25 mechanism of muscle contraction	evolution (9.55 Jan 3) (2.4) (6)
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teratogenesis, genetic disease, studied for clues to genetic controls	mutualism, fungi, insect behavior, fungus gardens, insect-fungus relations
1950 June p 16–19	1967 Nov p 112-120 [1086] mycelium, fungi, mushrooms, plant growth, burgeoning explained
chromosome, evolutionary diversity, science, genetics 1900-1950, one gene-one enzyme 1950 Sept p 55-58	1956 May p 97–106
human evolution, natural selection, gene mutation, eugenics, 'man's	My cenaean civilization, Classical archeology, burial treasure,
genetic future' 1952 Feb p 68–74	Agamemnon, dig started by Schliemann continues 1954 Dec p 72-78
Lysenkoism, Lamarck, acquired characteristics, genotype, evolution, phenotype, ostrich calluses, speciation, religion, orthodoxy,	Greek civilization, Linear B script, Classical archeology, Pylos, King
Darwinism, experiments in acquired characteristics	Nestor's palace, 1200 B C 1958 May p 110-121
1953 Dec p 92–99	castle, nuraghi, Classical archeology, building construction, 1000 BC
virology, tobacco mosaic virus, amino-acid sequence 1955 July p 74-78 [59]	proto-castles in Sardinia 1959 Dec p 62-69 Bronze Age, Iron age culture, rock paintings, Camunian culture, Italian
ionizing radiation, recessive gene 1955 Nov p 58–68 [29]	rock carvings 1960 Jan p 52–59
Mendel's laws, chromosome mapping, science history, the gene on the	Hebrew civilization, Linear A script, Linear B script, Minoan
eve of the resolution of the genetic code 1956 Oct. p 78–90 [17]	civilization, Crete, Semites, common origin of Greek and Hebrew civilizations 1965 Feb p 102-111
camouflage, evolution, melanism, moths, speciation, air pollution, population genetics, genetic variation, evolution observed	Greek prehistory, Linear B script, origins of writing
1959 Mar p 48-53 [842]	1972 Oct p 36-44 [681]
chromosome breakage, radiation damage, ionizing radiation, cytology,	mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, Penicillium notatum, yeast, molds and men
radiation damage to living cell 1959 Sept p 94–100 [57] evolution, ionizing radiation, radiation-induced mutation in evolution	1952 Jan p 28–32 [115]
1959 Sept p 138–160 [55]	mycorrhiza, fungi, orchids, symbiosis, plant evolution, adaptation,
environmental pollution, ionizing radiation, fallout, atomic bomb test,	adaptive ability of orchids 1966 Jan p 70–78
radiation damage, public health, hazards of radiation to society 1959 Sept p 219-232 [1214]	myelin sheath, cell membrane, electron microscopy, endoplasmic reticulum, mitochondria, nuclear membrane, electron microscope
cancer therapy, radiation damage, nitrogen mustard, carcinogenesis,	study of membranes in cell 1962 Apr p 64-72 [151]
nuclear medicine, chemical imitation of radiation injury	slow virus infection, multiple sclerosis, poliomy elitis, demy elinating
1960 Jan p 99-108 radiation, nuclear medicine, X-ray, no	factor, latent viruses 1970 July p 40-46 myeloma, antibody molecule, immunoglobin, antigen binding, Bence-
threshhold to biological damage by radiation	Jones proteins, amino-acid sequence, antibody amino-acid sequence
1960 Apr p 142–153 [71]	determination 1970 Aug p 34-42 [1185]
antibodies, antigens, protein synthesis, immunology, immune response, selection theory of immunity 1961 Jan p 58-67 [78]	my ocardial infarction, cancer, enzyme blood levels, hepatitis, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of
penicillin, drug resistance, bacteriology 1961 Mar p 66-71	abnormal enzymes 1961 Aug p 99–107
DNA, ultraviolet radiation, effects of ultraviolet on weakest links in	my ogenic rhythm, cell differentiation, cell aggregation, heart cells, heart
chain 1962 Dec p 135–144 [143] genetic code, tobacco mosaic virus, RNA nucleotides, protein	contraction, rat cardiac cells in vitro 1962 May p 141-152 myoglobin, insulin, protein structure, ribonuclease, amino-acid sequence,
synthesis, amino-acid sequence, relation of RNA mutations to amino	enzy me action, resolution of atomic structure of three molecules
acid changes 1964 Oct p 46-54 [193]	1961 Feb p 81-92 [80]
congenital anomalies, genetic disease, hemophilia, epidemiology, in Queen Victoria's descendants 1965 Aug. p. 88–95	amino acids, proteins, X-ray crystallography, alpha helix, 3-D structure of protein molecule 1961 Dec p 96-11 [121]
antibiotics, protein synthesis, streptomycin, genetic code, ribosome,	allosteric enzymes, hemoglobin, X-ray diffraction amino-acid
DNA, RNA, 'misreadings' induced by antibiotic alterations of	sequence, contour maps, folding of four chains, alpha chain, beta
ribosomes 1966 Apr p 102–109 amino acids, DNA, protein synthesis, genetic code, molecular biology,	cbain 1964 Nov p 64-76 [196] enzymes, protein synthesis, hemoglobin, control systems, feedback,
triplets, RNA, anticodon, ribosomes, triplets, wobble hypothesis	cooperative enzymes, allosteric enzymes, control of biochemical
1966 Oct. p 55-62 [1052]	reactions 1965 Apr p 36–45 [1008]
protein structure, amino-acid sequence, gene protein colinearity, DNA structure, gene mapping, base 1967 May p 80-94 [1074]	evolution hemoglobin, molecular evolution, amino acids, evolutionary distance measured by amino-acid substitution
bacteriophage, virus structure, T4 virus, DNA, morphogenesis, test-	1965 May p 110-118 [1012]
tube reconstruction of viral components 1967 July p 60-74 [1079] bacteria, drug resistance, DNA R-factor, antibiotics, transferable drug	mathematical model, computer modeling, giant molecules, cytochrome
resistance, multiple resistance 1967 Dec p 19–27	helix, hemoglobin, molecular modeling, DNA 1966 June p 42-52 [1043]
blood groups, genetic drift, consanguinity, gene pool, evolution,	tertiary structure 1959 June p 76
population genetics Parma Valley, Italy 1969 Aug. p 30-37 evolution gene pool, genetic load, electrophoresis, population genetics	antigen structure 1976 Mar p 60B myosin, muscle contraction, ATP, actin, muscle fibril, biochemical
heterozygosity 1970 Mar p 98–107 [1172]	mechanism of muscle contraction 1949 June p 22-25
radiation hazard minimized 1949 May p 28 mutation directed, in Brookhaven reactor 1954 Jan p 44	flagella, contractile proteins keratin, epidermis, 'k m e f' group,
mutation directed, in Brookhaven reactor 1954 Jan p 44 mutation rate, evolution, E. coli, penicillin resistance, evolution observed	motility in bacteria 1951 Jan p 20-24 collagen, elastin keratin, fibrin, cell polymers, polymers in living cells
1953 Oct. p. 78_83	1957 Sept. p. 204–216 (35)
DNA replication, ultraviolet radiation, radiation damage, thymine dimer, repair of DNA	electron microscopy, muscle contraction, muscle fiber, actin, muscle
cytochrome C, protein evolution, protein structure respiration, amino-	fiber structure and function 1958 Nov p 66-82 [19] actinomy osin, cyclosis, cilia, muscle contraction, flagella cytology.
acid substitution 12 billion year record of evolution, ancient protein	cytoplasmic streaming, actin, underlying unity of cellular motion
mutual assured destruction, ABM, arms race, ICBM, MIRV, SLBM,	1961 Sept p 184-204 [97] actin, muscle contraction, ATP, electron microscopy, sliding-filament
counterforce strategy, strategic balance, national security	hypothesis 1965 Dec. p. 18-27 (1026)
atomic weapons arms race, SALT, MIRV, counterforce strategy.	ATP, actin actinomyosin, muscle contraction tronomyosin tronomy
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SI BM son it, accustic detection 1977 Lt.	actin muscle contraction, muscle fibril, protein switch trongmissis
ABM ICBM MIRV, atom c armaments counterforce stratesy	troponin Cancum in muscle 1075 No. 226 45 112201
MINICES WE MANY MINISTREE	archeology cultures of southern Arabia 1060 Dec. 20 46 6652
counterforce strategy, military expenditures SALT, arms race, MIRV, MARY 1974 May p 20-31	mythology, monsters, Homo monstrosus manlike creatures
1774 stay p 20-31	1968 Oct p 112-118
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myxomatosis, rabbit plague, Australia, pest control 1954 Feb p 30-35

Nabataean culture, irrigation, wadi, desert, agricul	tuent access
restoration of Nabataean irrigation works in t	turar system, the Negev
	1956 Apr - 20 46
Nabataeans, Greek civilization, Near East archeolo	ogy, Petra,
Hellenization of Arabs	1963 Oct p 94-102
Nagasaki casualty, Prof T Nagardies	1051 7
narcotics, drug addiction, withdrawal syndrome, revoluntary self-injection 19	ats and monkeys.
narwhal, unicorn, how unicorn acquired narwhal's	64 Mar p 46-52 [178]
ameering now unicom acquired narwnars	
nastic movement, plant movement, turgor movement	1951 Mar p 42-43
photogropism, touch orientation	1955 Feb p 100–106
National Academy of Engineering, established	1065 Fab - 20
National Academy of Sciences, gene manipulation,	gene splicing
recombinant DNA, science policy, NIH guidel	lines
elections 197	7 July p 22-23 [1362]
National Accelerator Laboratory, particle accelerator	1951 May p 32
neutrino beam, synchrotron	1974 Feb p 72-83
National Astronomical Observatory, to be located at	Kitt Peak
	1958 May p 54
National Bureau of Standards, see NBS	• •
'national character', cultural anthropology, tribes	1949 Aug p 11-15
national economic policy, economic development, in	dustrialization,
agricultural technology, Federal intervention in development of U.S. South	economic
national health insurance, medical care, group practi-	1963 Sept p 224-232
mountain mountained incurent care, group practi	1949 June p 11-15
medical care, medical technology, multiphasic scre	eening, Kaiser health
plan, H M O, screening out the 'worned well'	1970 Apr p 15-23
medical care, health statistics, medical-cost control	l, 'uncontrollable'
expenditures, US Federal expenditure on medi-	cal care
infectious disease, medical care, child health care, a	1971 Apr p 17-25
illness, delivery of medical care	1973 Apr p 13–17
medical care financing, H M O, Kaiser health plan	
	973 Sept p 169-175
Washington proposal	1948 Oct p 24
National Ocean and Atmosphere Administration, see National Science Board, forufies N S F	NUAA 1952 Jan p 38
chairs filled	1956 July p 49
National Science Foundation, see NSF	
national security, arms race, atomic test ban, atomic b	omb test, missile
policy, military technology, fallout shelters 1964	Oct p 27-35 [319]
ABM, arms race, ICBM, MIRV, SLBM, mutual ass counterforce strategy, strategic balance 1969	area aestruction,
natural fibers, artificial fibers, spinning technology, tex	tile fibers, yarn
	1972 Dec p 46-56
natural gas, pipelines, economic regionalism in US, ap	ppraisal of natural
	1951 Nov p 17–21
coal, energy resources, oil reserves, energy economic impending petroleum shortage	1956 Oct p 43-49
liquid natural gas, pipelines, tankers, storage, distrib	
	1967 Oct p 30-37
natural history, insect behavior, social insect, army ant,	ants, comparative
psychology, reproduction, feedback, pheromones, philosophy of science, anthropomorphism	948 June p 16-23
hickory, fences, axe-handles, smoked ham, hickory m	uts, economic n
1 faces shockark bickery	948 Sept p 40~43
alanguage paleontology Agassiz, Louis Agassiz, 10816	ering of science in n 1949 July p 48-51
America	953 June p 88-94 N
opossum, marsupiai, loikiore	953 Nov p 86-91 N
	954 May p 64-68 N
chimney swift, life cycle	954 July p 60-64 N
Maupertuis, least-action principle, geoid, ine and wor	S Oct p 100-110
Moreau de Maupertuis	-prey No
relationship, entomology	060 June p 72-78
	or, Toxotes
1963	3 July p 100-103

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Arachnida, false scorpion, animal behavior, Chelifer canroides
                                                        1966 Mar p 95-100 [1039]
           aggression, rats, animal behavior, social behavior, territonal behavior
             Rattus rattus, Rattus norvegicus
                                                                1967 Jan p 78-85
          cryptozoa, Berlese funnel, ecological niche, cryptosphere, animal
             behavior, life under rocks and rotting logs
                                                       1968 July p 108-114 [1112]
          albatross, evolution, animal behavior, bird flight, sexual behavior,
            soaring
                                                        1970 Nov p 84-93 [1204]
       natural polymers, materials technology, polymers, plastics, cross linking
            covalent bonds
                                                            1967 Sept p 148-156
       natural reactor, CANDU reactor, nuclear power, heavy-water reactor,
            fission reactor, CANDU system
                                                               1975 Oct p 17-27
         fission products, nuclear fission, Oklo phenomenon, Precambian
            reactor, uranium deposits
                                                              1976 July p 36-47
         nuclear power, CANDU reactor
                                                                  1975 July p 45
      natural resources, Earth crust, mining, metal ores, natural concentration
           of metals
                                                            1960 June p 146-154
         magnetometer, geomagnetism, mining, mineral prospecting, aenal
                                                           1961 June p 151-162
           prospecting
        aerial photography, infrared photography, remote sensing multiband
                                                             1968 Jan p 54-69
           camera, remote sensing of natural resources
        distribution of wealth, economic development, middle classes,
           population growth, production statistics, demographic transition
                                                             1976 July p 28-35
     natural selection, neurospora, mutation, gene expression, Mendelian
          inheritance, genetic disease, tryptophan-niacin relation, one gene
          one enzyme hypothesis, selection for defect 1948 Sept p 30-39 [1]
       population genetics, evolution, E coli, Drosophila, mutation, sexual
          recombination, speciation, genetic basis of evolution
                                                         1950 Jan p 32-41 [6]
       extinction, species specificity, adaptation, evolutionary radiation,
                                                           1950 Nov p 52-55
          ecological niche, 'Is man here to stay?'
       human evolution, gene mutation, mutation, eugenics, 'man's genetic
                                                           1952 Feb p 68-74
         future'
       biology, evolution, philosophy of science, creativity, innovation in
                                                    1958 Sept p 100-113 [48]
         biology
       Darwinism, Wallace, science history, life and work of Alfred Russel
                                                           1959 Feb p 70-84
         Wallace
      genetic adaptation, human evolution, civilization, culture, human
                                                  1960 Sept p 206-217 [609]
        evolution in man-made environment
      fossil record, species extinction, glaciation, 'catastrophism', crises in the
                                                     1963 Feb p 76-92 [867]
        history of life
      genetic variation, gene mutation polymorphism, mollusk shells
        biological diversity, discontinuous variation
                                                   1975 Aug p 50-60 [1326]
     lek behavior, sage grouse, sexual behavior, lek mating behavior in sage
                                                 1978 May p 114-125 [1390]
        grouse
                                                             1952 June p 42
     observed in E coli
  Navaho, social values, Mormons, Zunis, Spanish-Americans agricultural
       system, comparative study of cultures in New Mexico
                                                          1956 July p 25-31
  navigation, interplanetary navigation, spacecraft, orbital motion, rocket
       communication technology, technology of space navigation
                                                        1960 Mar p 64-73
    Mariner 2, space exploration, telemetry, Venus, orbital motion high
                                                         1963 July p 70-84
       resolution studies of Venus
    pottery, human migration, Japan, Ecuador, New World archeology
                                                         1966 Jan p 28-35
      evidence for 3,000 B C trans-Pacific contact
    accelerometer, aircraft navigation, air transport, inertial navigation
      gyroscope, commercial adaptation of military and space technology
                                                       1970 Mar p 80-86
                                                       -- -- I the like
   see also interplanetary
                                                             ic weapons
 navigation systems, arms r -
                                                 1977 Feb p 20-29 [691]
      tactical weapons, control systems
navigational accuracy, interplanetary navigation, Mars, spacecraft
                                                       1976 June p 58-74
     navigation, Viking missions
NBS. National Bureau of Standards
                                                          1954 Sept p 74
NBS computer, 20 000 germanium diodes
                                                          1953 Sept p 76
NBS demobilized, no military research
Nea Nikomedeia, Macedonia, Neolithic village clay figurines domestic
     animals, agricultural society, oldest Neolithic site in Furope
                                                      1965 Apr p 82-92
Neanderthal man, Homo sapiens, Charente skull, Galley Hill skull,
    human evolution, Swanscombe cranium antiquity of Homo expiens
                                                      1919 July p 16-19
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human evolution, Neolithic archeology, Shanidar cave, layer by layer, 100,000 years occupation by man 1957 Nov p 58-64	metal artifacts, Turkey, metallurgy, copper, village-farming communities, man's first use of metals 7,500 B C
anthropology, human evolution, co-existence of Homo sapiens and Neanderthal man 1957 Dec p 89–96 [844]	1970 Mar p 50-56 woodhenges, henge monuments, Britain, Stonehenge
science history, Devon caves, human evolution, stone tools, idea of man's antiquity 1959 Nov p 167-176	1970 Nov p 30-38 Hoabinhian culture, agricultural revolution, Spirit Cave site, Thailand
lear East, Arabia, irrigation, trade, frankincense, myrrh, Biblical archeology, cultures of southern Arabia 1969 Dec p 36-46 [653]	1972 Apr p 34-41 [675] Greek prehistory, Stone Age civilization, Franchthi Cave 1976 June p 76-87
lear East archeology, Greek civilization, Nabataeans, Petra,	- 100716
Hellenization of Arabs 1963 Oct p 94-102	mousetrap in Iran 1967 May p 60 earthworks, henges, Britain 1970 May p 58
ebulae, Milky Way, globular cluster stars, spiral arms, dust clouds,	Neolithic revolution, fire-making, human evolution, fire vegetation,
galactic center, seeing a galaxy from the inside 1950 Feb p 30-39	cooking, kiln, furnace, heat, introduction to single topic issue on
turbulence, galaxies, galactic clusters, hierarchy of turbulence in space	heat 1954 Sept p 52-57
1952 June p 26–30	Middle East 1964 Aug p 40
Clouds of Magellan, galactic center, globular cluster stars, Southern	Neolithic trade, sea-shell origins 1971 Feb p 47
sky, Eta Carma, astronomical riches of the southern sky	Neolithic Turkey, metallurgy 1964 Dec p 62
1952 July p 46–57	Neolithic village, Macedonia, Nea Nikomedeia, clay figurines, domestic
galaxy, stellar evolution, massive stars, stellar associations, massive	animals, agricultural society, oldest Neolithic site in Europe
stars are short-lived 1956 Feb p 36-41	1965 Apr p 82-92
planetary nebulae, spectroscopy, shells of luminous gas around hot,	bone, hunting societies, Neolithic archeology, Suberde site in Turkey
dense stars 1963 Apr p 60-67	1968 Nov p 96-106
Otion nebula, stellar evolution, ultraviolet radiation, hydrogen density, dating interstellar bodies 1965 Feb p 90-101	neonatal disorder, communication, crying, infant behavior, mother-child
dating interstellar bodies 1965 Feb p 90-101 galaxy structure, interstellar matter, Milky Way, stellar formation,	interaction, sound spectrogram 1974 Mar p 84–90 [558]
supernovae, galactic dust clouds, Gum Nebula, Bok globules	blindness, medical ethics, premature infants, medical researches,
1972 Aug p 48-61	retrolental fibroplasia, 'blind babies' 1977 June p 100–107 [1361]
nebular hypothesis, comet, galactic formation, solar system evolution,	neonatal physiology, lung, breathing, respiration, first breath of newborn
stellar evolution 1975 Sept p 32–41	1963 Oct p 27–38
nebular luminosity, color photography, emission nebulae, interstellar gas,	adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,
ionization 1974 Oct p 34–43	metabolism, cold adaptation, heat production in newborn animals,
Necker cube, depth reversal, optical illusion, reversing figures, visual	including man 1965 Aug p 62-65 [1018]
perception 1971 Dec p 62–71 [540]	neonatal respiratory distress syndrome, see hyaline membrane disease
negative aftereffects, afterimages, optical illusion, visual perception	nephron, kidney, counter-current exchange, urine, glomerulus, osmosis,
1976 Dec p 42-48 [574]	anatomy and physiology of the kidney 1953 Jan p 40-48 [37]
negative feedback, feedback, control loop, servomechanisms, flyball	Neptune, orbital motion, solar system, Pluto, Pluto as escaped Neptunian
governor, positive feedback, ecological system, nervous system,	satellite 1959 Apr p 86–100 [295]
economic system, automatic control, feedback concept	outer planets, Pluto, Saturn, solar system, Uranus
1952 Sept p 48–55	1975 Sept p 130–140
negative-income-tax experiment, income maintenance, work attitudes,	Nernst effect, Ettingshausen effect, Hall effect, Righi-Leduc effect,
work incentives, welfare reform 1972 Oct p 19–25	galvanomagnetism, thermomagnetism, science history, industrial
negative ion, particle accelerator, Van de Graaf generator, electrostatic	technology, technological applications of 19th c discoveries
belt generator, charge-changing accelerator 1970 Aug p 24-33 negative numbers, mathematics, number theory, irrational numbers,	1961 Dec p 124-136 nen e cells, giant axon, squid, nerve impulse, sodium pump, 'voltage
complex numbers, matrix 1964 Sept p 50–59	clamp' technique 1958 Dec p 83–90
negative-pressure concept, cavitation, droplet-levitation technique,	cell membrane, phospholipids, phosphatidic acid cycle, cell secretion,
liquids, tensile strength, surface tension 1972 Dec p 58–71	membrane transport potential 1965 Oct p 78-86 [1022]
negative resistance, electric field, Gunn effect, microwave emission, solid	brain circuitry, embryonic development, neuronal specificity, visual
state physics, electronics, gallium arsenide, solid state microwave	cortex, Xenopus laevis 1973 Feb p 26-35 [1265]
generation 1966 Aug p 22–31	leeches, neural organization, nerve physiology, nerve signals, nervous
negative viscosity, eddies, turbulence, wind, nonuniform flows rotating	system, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287]
systems, viscosity 1970 July p 72-80	nerve circuits, embryonic development, regeneration, embryology, reflex
Negev desert, irrigation, desert ecology, agricultural technology, land	arc, 'hard-wiring' of nervous system 1959 Nov p 68-75 [72]
reclamation, Israel, desert reclamation 1960 Mar p 54-63	dendrites, synapse, postsynaptic potential olfactory bulb, retina,
nematic, liquid crystals, soap bubbles cholesteric, smeetic	microcircuits in the nervous system 1978 Feb p 92–103 [1380]
1964 Aug p 76-85 ncmatocysts, Portuguese man of-war, social behavior, coelenterate	nerve conduction, grasshopper, muscle contraction, biomechanics of leap
colonies 1960 Mar p 158–168	1958 Jan p 30-35 cell communication, central nervous system, ganglion reflexes,
nematodes, fungi, carnivorous plants, soil molds, carnivorous fungi	neuroreceptors, retina nerve impulse, neurotransmitters, neural
1958 July p 67-72 (1094)	synapse, cytology, neuromuscular synapse how cells communicate
Nemrud Dagh, archeology, burial site, funerary monument, Turkey, tomb	1961 Sept p 209–220 [98]
of Antiochus I 1956 July p 38-44	synapse, reflex arc, motor neuron, membrane potential inhibitory
Neolithic archeology, Stone Age hunters, organic relies peat bog	impulse, transmitter molecules, nerve excitation, activity at the
1952 May p 20-25	neural synapse 1965 Jan p 56-66 (1001)
Jericho, Biblical archeology, 'world's oldest city' 1954 Apr p 76–82	axon, neurology, Schwann cell, axoplasm, membrane potential
agricultural revolution tools slash-burn agriculture, cultural evolution, Stone Age forestry and agronomy 1956 Mar p 36-41	perfusion technique, cell perfusion, structure of axonal tube.
Stone Age forestry and agronomy 1956 Mar p 36-41 Neanderthal man human evolution Shanidar cave, layer by layer,	physiology of neural transmission, concentration gradients
100 000 years occupation by man 1957 Nov p 58-64	1966 Mar p 74-82 [1038]
agricultural revolution, Fertile Crescent, human evolution, cultural	cardiac arrhythmia intensive care, coronary care unit, fibrillation
anthropology, 8000 B C domestication of plants and animals	coronary occlusion, electrocardiography, heart infarct
1960 Sept. p. 130-148 [605]	none conduction block, animal toxins tetrodotoxin saxitoxin poisons
111 culture, Turkey, 7000 B C 1961 Aug p 86–97	puffer fish. California newt 1967 Aug. p. 60-71 (1980)
Anatolian plateau, Catal Hüyük 1964 Apr. p. 94-104 [620]	puller fish, California newt 1967 Aug. p 60-71 [1080] none disorders, anemia brain damage, environmental toxins blood
obsidish trade, trace elements, Neolithic trade patters deduced from	unorders kidney disorder, lead poisoning 1971 Fab on its approach
bone hunting societies Neolithic village Suberde site in Turkey	nerve exercation, nervous system here impulse inhibitor impulse
1968 Nov. p. 96–106	neuromuscular sympse, neurotransmitters acetylcholine dynamics
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	of inhibition 1948 Scpt. p. 44-49

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nerve conduction, exhipter, tellex are, motor heution, herideane potential, inhibitory impulse, transmitter modevales, a firstly at the ticural synapic 1995 Inc. p. to expense nerve fibers, salamandar, reprocession, fing, embrange devel symmit, estof noise libers in regeneration 19th Oct p 29-85 target recognition 1974 Jun - p. 59 nerse gases, acets leb shire, acots leb shire tirrain, morre pontione, entre acid early, alkaloids, to time, littled mechanisms at cellular level of inhibition 1959 Nov. p. 76-24 Cholinesterase inhibitions 1952 Okt p. 38 nerve growth factor, in divisation office 1976 Dec p 32 nersy impulse, nersous system, nersy excitation, whilines impulse, neuromateular synapie, neurotranimuttera, acetylcholine, ilynamica of inhibition 194 Sept p 41 49 cell membrane, con potential, boologi, al fide of potastiam 1949 Aug p. 16-21 physiology, nervous system, endoceine system, respiration, musele contraction, science, physiology 1903, 1956 1959 Sept. p. 71-76 rquid, cephilopods, giant axon 1951 Apr p 64 69 prostarlandin action potential, refractors period, rodium ion potential, nodes of Ranvier, nerve membrane 1952 Nov. p. 35-65 [20] acetylcholine, hormone, serotonin, synapie, em inomal illness, neurotransmitters, central nervous system, physiological psychology, chemical incilation of nerve impulses 1957 Feb p 56-94 giant axon, squid, sodium pump, nerve cells, 'voltage clamp' technique walking 1955 Dec. p. 83-90 electric fishes, sodium ion potential, electroplaques, neurophysiology, synapse, acetylcholme, animal behavior, biolimmescence 1960 Oct p 115-124 cell communication, central nervous system, nerve conduction, ganglion reflexes, neuroreceptors, retina, neurotransmitters, neural synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept. p. 209-220 [98] biological sciences, mathematics, self-reproducing machine, predation, Turing machine, automata theory, mathematics in biology 1964 Sept. p. 148-164 facrimal gland, hypothalamus, tears, reflex, psychogenic and continuous tears 1964 Oct p. 78-86 bacterial toxin, tetanus, botulism, paralysis, inhibitory impulse, synapse, motor neuron, Clostridium tetani, Clostridium botulinum 1968 Apr. p. 69-77 cell communication, genetic code, communication, hormonal action, metabolic information 1972 Sept. p. 42-51 [1257] acetylcholine, synapse, neurotransmitters, nerve-muscle synapse, chemical mediation of neuromuscular transmission 1977 Feb. p. 106-118 [1352] nerve inhibition, central nervous system, reflex are, neuronuscular control, muscle contraction, interneuton, motor neuron, stretch reflex, Renshaw cell, synapse 1966 May p. 102-110 nerve membrane, nerve impulse, action potential, refractory period, sodium ion potential, nodes of Ranvice 1952 Nov. p. 55-65 [20] nerve-muscle synapse, acetylcholine, nerve impulse, synapse, neurotransmitters, chemical mediation of neuromuscular transmission 1977 Feb. p. 106-118 [1352] nerve network, locust, muscle contraction, insect flight, flight control communicate 1968 May p. 83-90 system, inhibitory impulse nerve physiology, leeches, neural organization, nerve cells, nerve signals, nervous system, reflex are, neuro motor synapse 1974 Jan. p. 38-48 [1287] acetylcholine, adrenalin, catecholamines, dopamine, drug effects. 1974 June p. 58-71 [1297] neurotransmitters, noradrenaline nerve poisons, algal bloom, Dinoflagellata, marine ecology, acetylcholine, 1958 Aug. p. 92-98 poisonous tide acetylcholine, acetylcholinesterase, nerve gases, citric-acid cycle, alkaloids, toxins, lethal mechanisms at cellular level 1959 Nov. p. 76-84 nerve regeneration, vision, learning, visual perception, embryonic development, inborn 'hard wiring' of nerve circuitry 1956 May p. 48-52 [1090] nerve signals, brain circuitry, microscopy, nerve structure, olfactory system, staining techniques, Golgi stain, Nissl stain 1971 July p. 48-60 [1227] brain circuitry, mammalian brain, sensory systems, stimulus

localization, visual perception, superior colliculus in integration at

leeches, neural organization, nerve cells, nerve physiology, nervous leeches, neural organization, neuro motor synapse.

1972 Dec. p. 72-82 [553]

nerve structure, by no circuitry, microscopy, nerve signals, ollamory system, standing techniques, Golder stain, Newlation 1971 July p. 43-40 [1227] nervine disease, autocontinity, autommune disease, multiple scloreis, alleren, mechamum in nervous disease 1949 July p. 16-19 nersous system, nerve impulse, nerve excitation, inhibitory impulse, nouromountar synapse, neurotransmitters, avetyleholme, dynamies 1943 Sept. p. 44-43 players of sex, end sering system, respiration, nerve impulse, muscle contraction, whence, physiol py 1900-1950 1950 Sept. p. 71-76 feedles, k. Control I sep, wire omechanisms, flyball governor, positive feedback, negative feedback, ecological system, economic system automatic central, feedback concept 1952 Sept. p. 43-55 vision, telles asc, motor neuton, interneuron, animal behavior, small neuroa systems as models for study 1967 May p 44-52 [1973] insect behave it, animal mavigation, locust, insect flight, response to stimuli, schistoverca prezinia 1971 Aug. p. 74-81 [1231] fatty acids, feedback, hormony-like substances, drug therapy, 1971 Nov. p. 84-92 [1235] loocher, neural organization, nerve cells, nerve physiology, nerve sionals, teffer are, neuro motor synapse 1974 Jan. p. 38-48 [1287] cricket mag, behavioral peneties, insect behavior 1974 Aug. p. 34-44 [1302] becomplism, walking, Edweard Mushridge photographs, control of 1976 Dec. p. 72-86 [1346] brain function, cyclic AMP, dopamine, endocrine system, messenger molecules, neurotransmitters, L-DOPA treatment, Parkinson's disease, 'second messengers', brain endocrinology 1977 Aug. p. 103-119 [1368] neeting, animal migration, animal navigation, turtles, telemetry, sexual behavior, Chelonia mydas, green tursle, 1,400-mile journey 1965 May p. 78-86 [1010] net reproduction rate, demographic transition, population growth, world population, zero population growth, birth rate, gross reproduction rate, extrapolation from world-statistics population model 1973 Mar. p. 15-23 [683] network analysis, nodes and branches, pipelines, powergrids, graph 1970 July p. 94-103 theory, rehability analysis network hierarchies, communication technology, communication, twoway channels, computer-assisted instruction, information retrieval. National Academy of Engineering study, 'Communications Technology for Urban Improvement', 'wired city' concept 1972 Sept. p. 142-150 network theory, communication networks, communication satellite. electronic switching, multiplexing, radio, communication, telephone 1972 Sept. p. 116-128 systems, television systems networks, complexity theory, switchboards, mathematics from networks 1978 June p. 114-124 (3013) and switching systems neural organization, leeches, nerve cells, nerve physiology, nerve signals, nervous system, reflex are, neuro motor synapse 1974 Jan. p. 38-48 [1287] neural synapse, cell communication, central nervous system, nerve conduction, ganglion reflexes pronounceptors, return never to pulse neurotransmitters, cytology, neuromagnal, cytograph, how remain 1961 Sept. p. 209-220 [98] neuro motor synapse, leeches, neural organization, nerve cells, nerve physiology, nerve signals, nervous system, reflex are 1974 Jan. p. 38-48 [1287] neurohumoral factors, hormone, hypothalamic hormone, luteinizing hormone, pituitary control, thyroid-stimulating hormone, TSH 1972 Nov. p. 24-33 [1260] neurology, blood-brain barrier, epilepsy, brain metabolism, neurophysiology, physiology of the barrier and its reinforcement 1956 Feb. p. 101-106 axon, nerve conduction, Schwann cell, axoplasm, membrane potential, perfusion technique, cell perfusion, structure of axonal tube, physiology of neural transmission, concentration gradients 1966 Mar. p. 74-82 [1038] auditory beats, brain, hearing, sound vibrations, auditory perception 1973 Oct. p. 94-102 [1282] neuromuscular control, central nervous system, reflex arc, muscle contraction, nerve inhibition, interneuron, motor neuron, stretch 1966 May p. 102-110 reflex, Renshaw cell, synapse neuromuscular synapse, nervous system, nerve impulse, nerve excitation, inhibitory impulse, neurotransmitters, acetylcholine. dynamics of 1948 Sept. p. 44-49 inhibition

brain function

system, reflex arc, neuro motor synapse

u	neuroreceptors, cell communication, central nervous system, nerve
cell communication, central nervous system, nerve conduction,	conduction, ganglion reflexes, retina, nerve impulse,
ganglion reflexes, neuroreceptors, retina, nerve impulse,	neurotransmitters, neural synapse, cytology, neuromuscular synapse,
neurotransmitters, neural synapse, cytology, how cells communicate 1961 Sept p 209-220 [98]	how cells communicate 1961 Sept p 209–220 [98]
	neurosecretory system, amphibian, metamorphosis, frog, thyroxin,
neuronal networks, creativity, neurophysiology, imagination, cerebral cortex, physiology of imagination 1958 Sept p 135–146 [65]	pituitary gland, hypothalamus, hormone, chemistry of amphibian
cortex, physiology of imagination 1958 Sept p 135–146 [65] brain, brain circuitry, cerebellar cortex, Purkinje cells, mossy fibers	metamorphosis 1966 May p 76–88 [1042]
1975 Jan p 56–71 [1312]	neurosis, learning, stress, psychotherapy, experimental neuroses in cats
neuronal response, contour perception, contrast perception, Mach bands,	1950 Mar p 38–43 [443]
optical illusion, visual perception, Craik-O'Brien effect	conditioned reflex, neurosis, operant conditioning, Pavlov, psychology,
1972 June p 90–101 [543]	thyroidectomy, stress, emotional behavior, conditioned reflex is
neuronal specificity, brain circuitry, embryonic development, nerve cells,	shown to be a neurosis 1954 Jan p 48–57 [418]
	conditioned reflex, operant conditioning, Payloy, psychology,
visual cortex, Xenopus laevis 1973 Feb p 26-35 [1265] neurones, glial cells, learning theory, memory, RNA, brain, molecular	thyroidectomy, stress, emotional behavior, neurosis, conditioned
	reflex is shown to be a neurosis 1954 Jan p 48-57 [418]
theory of memory 1961 Dec p 62-70 [134] aplysia, behavior, learning, memory, synapse, heterosynaptic	schizophrenia, emotional illness, psychoanalysis, psychiatry, psychosis,
facilitation, memory and learning at nerve-cell level	double bind, taxonomy of emotional illness, family therapy
1970 July p 57–70 [1182]	1962 Aug p 65-74 [468]
neuropharmacology, anesthesia, pain, cocaine, procaine, surgery, medical	experimental in rats 1950 Dec p 32
research, pharmacology, psychiatry, research in pain suppression	neurospora, mutation, natural selection, gene expression, Mendelian
1957 Jan p 70–82	inheritance, genetic disease, tryptophan-macin relation, one gene-
neurophysiology, blood-brain barrier, epilepsy, brain metabolism,	one enzyme hypothesis, selection for defect 1948 Sept p 30-39 [1]
neurology, physiology of the barrier and its reinforcement	neurotransmitters, nervous system, nerve impulse, nerve excitation,
1956 Feb p 101~106	inhibitory impulse, neuromuscular synapse, acetylcholine, dynamics
insect metamorphosis, silkworm, insect behavior, cocoon, cocoon	of inhibition 1948 Sept p 44-49
record of silkworm spinning movements 1956 Apr p 131–140	acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional
brain, learning, neuropsychology, pleasure centers, hypothalamus,	illness, central nervous system, physiological psychology, chemical
electrode stimulation of pleasure centers in rat brain	mediation of nerve impulses 1957 Feb p 86-94
1956 Oct p 105-116 [30]	cell communication, central nervous system, nerve conduction,
obesity, human nutrition, hunger, appetite, physiological mechanisms	ganglion reflexes, neuroreceptors, retina, nerve impulse, neural
of overeating 1956 Nov p 108-116	synapse, cytology, neuromuscular synapse, how cells communicate
central nervous system, medulla, reticular formation, brain, perception,	1961 Sept p 209-220 [98]
motor reflex, attention and orienting mechanism in brain	animal behavior, brain stimulation, hormone, drive activation by
1957 May p 54-60 [66]	injection of chemicals into rat brain 1964 June p 60-68 [485]
auxins, serotonin, LSD, comparative physiology, physiological function	brain function, carbohy drate, serotonin, human nutrition, tryptophan,
of serotonin 1957 Dec p 52–56	feedback 1974 Feb p 84–91 [1291]
brain, cerebellum, central nervous system, cerebrum cerebral-	acetylcholine, a drenalin, catecholamines, dopamine, drug effects, nerve
cerebellar coordination 1958 Aug p 84–90 [38]	physiology, noradrenaline 1974 June p 58-71 [1297]
creativity, imagination, neuronal networks, cerebral cortex, physiology	acetylcholine, nerve impulse, synapse, nerve-muscle synapse, chemical
of tmagination 1958 Sept p 135–146 [65]	mediation of neuromuscular transmission
electric fishes, sodium ion potential, electroplaques, synapse,	1977 Feb p 106–118 [1352]
acetylcholine, animal behavior, nerve impulse, bioluminescence	brain function, cyclic AMP, dopamine, endocrine system, messenger
1960 Oct p 115-124	molecules, nervous system, L-DOPA treatment, Parkinson's disease,
animal behavior, mollusks, central nervous system	'second messengers', brain endocrinology 1977 Aug p 108-119 [1368]
1971 Feb p 68-75 [1212] fortification illusions, migraine headaches, optical illusion	neuston, carbon dioxide, marine life, microlayer oceanography, ocean
1971 May p 88–96 [536]	surface, rainwater composition, surfactant 1974 May p 62-77 [913]
binocular vision, depth perception, eye, optic chiasm, stereopsis, visual	neutralization test, virology, complement-fixation test, hemagglutination
cortex 1972 Aug p 84–95 [1255]	test 1955 Mar p 60-70
animal behavior, escape response, toad, visual perception, visually	neutrino, elementary particles, electron, proton, particle counters
guided behavior 1974 Mar p 34-42 [1293]	neutron, positron, mesons, photon, particle accelerator, nuclear
brain circuitry, eye movement, pons, visual cortex, visual processing,	binding force, 'Meson Song' 1948 June p 26~39
visual cells in pons 1976 Nov p 90-98	elementary particles, neutron decay, alpha decay, beta decay, setting
eye motion-perception system, moving-target perception, visual	trap for detection of theoretical particle 1956 Jan p 58-68
perception 1977 Jan p 60-73 [575]	astrophysics, high-energy physics neutrino astronomy, neutrino
transducers in the skin 1959 Nov p 91	'telescope' 1962 Aug p 90–98 [283]
neuropsychology, brain, learning, neurophysiology, pleasure centers,	beta decay, particle accelerator, muon neutrino, a particle interaction,
hypothalamus, electrode stimulation of pleasure centers in rat brain	'weak' force, experiment demonstrating existence of muon neutrino
1956 Oct p 105–116 [30] electroencephalography, perceptual isolation, hallucination, boredom,	1963 Mar p 60–70 [324]
sensory deprivation, effect of exposure to monotonous environment	cosmic radiation neutrinos solar neutrinos, intermediate vector boson,
1957 Jan p 52–56 [430]	scintillation counter boson, detection of natural neutrinos
kinesthetic memory, spatial orientation, visual perception, perception	1966 Feb p 40-48 cosmic radiation, solar radiation, solar neutrino detector,
of the upright 1959 Feb in 5056 (410)	thermonuclear reaction, neutrino detection experiment and
motion perception optical illusion, relative vs absolute motion	predictions
1959 tuly = 56 60 (409)	solar corona solar energy, solar magnetism, Sun, sunspots
pain, perception, psychology, cultural influence on pain perception	1975 Sept p 42-50
1061 E-L = 41 40 (457)	captured? 1953 Nov p 50
attention mechanism, speech perception, hearing cochlea, phonetics, hearing two messages at a time 1962 Apr. p. 143-151 [467]	existence demonstrated 1956 Aug n. 48
human anatomy, sensors perception eye, ear Descartes, 17th c	detection proposal
approach to human perception mechanistic hypothesis	detected by underground contillation counter 1965 Oct p. 38
1064 34 100 116 11643	Solai neutinos missing
ocuroreceptor cells, hearing vision sensors organs commercial and long	head modestronomy, actrophysics neutrino, high-energy physics neutrino
tiste buds how cells receive stimuli 1961 Sept p 222-238 [99]	
- make to many and the t	medianty treated treated to the property of the property and the state of the state
	physics hadrons particle accelerator, positron 1973 Aug. p 30–38

1948 Sept p 44-49

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nerve conduction, compositeffer are, in our tour of combenies
        potential, inhibitors impulse transmitter in deciles, a tissis at if-
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        neural isnip--
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  nerve fibers, salamander, reseneration, frog embersons, development, inf-
                                                                                                                                      1971 July p 42 10 [1227]
                                                                                     mersons thee are, auto constitute, a its irraunc diea e, multiple iclaims.
        of nerve libers in regeneration
                                                            Whith p 22 se
                                                                                          allerge, mechanism, in norwins disease
     target recognition
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                                                                                     nersions system, acress impulse, acress excitition inhibitory impulse,
  nerve gases, acers le holme, acers le holmesteraie, norse poncera corre la orl
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       excle, alkaloule forms lethal much mann accellular level
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                                                                                       physiology, end keine system, respiration, nerve impolse, moide
    cholinesters embiliators
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                                                                                         contraction science, physiology 1960-1950
  nerve-growth factor, in disautoriomia
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                                                               1971 Dec p 32
  nerse Impulse, nervous system, nerve excitation, inhibitory impoli-
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       neuromusculat een apic, acutotraremitters a eteleb dire, den me .5
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                                                          1945 Sept p 41 40
                                                                                       vis in, reflex are, mistor neuton, interneuron, animal behavior, small
    cell membrane, i in potential, bud speal tol- of potarium
                                                                                         reprovessavents as models for study
                                                                                                                                    1967 May p 44-52 [1073]
                                                           1917 Aug p 16 21
                                                                                      insect behavior, animal navigation, locust, insect flight, response to
    physiology, nervous system, and wine system respiration mustle
       contraction, science, physiology 1889 1986
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    squid, explisioped a grant axin
                                                           1951 Apr p 64 (9
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    action potential refractory period, so built i in potential, nisdes of
                                                                                      leaches, neutal organization, nerve cells, nerve physiology, nerve
       Ranvier, nerve membeane
                                                     1952 Nov p 55 65 [20]
                                                                                        uguals, reflex are, neuro motor synapse
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    acetylcholine, hormone, serotonin, synopie, emotional illness,
                                                                                      encket some, behavioral penetics, insect behavior
       neurotransmitters, central nervous is stem, place stopical psychologis
                                                                                                                                   1974 Aug. p 34-44 [1302]
       chemical medianon of nerve impulses
                                                          1957 I'ch p 56 91
                                                                                      lexernotion, walking, I dweard Muybridge photographs, control of
    giant axon, squid, sodium pump, nerve cells, 'softree clamp' technique
                                                                                        walking
                                                                                                                                  1976 Dec. p 72-86 [1346]
                                                          1959 Dec p 83 01
                                                                                      brain function, eyelic AMP, dopamine, endocrine system, messenger
    electric fishes, sections ton potential, electroplaques, neurophysiologs,
                                                                                        molecules, neurotransmutters, L-DOPA treatment, Parkinson's
      synapse, acetylcholine, animal behavior, bioluminescence
                                                                                        disease, 'second messengers', brain endocrinology
                                                        1960 Oct p 115-124
                                                                                                                                1977 Aug. p 108-119 [1365]
   cell communication, central nervous system, nerve conduction,
                                                                                   nesting, animal nugration, animal navigation, turtles, telemetry, sexual
      ganglion reflexes, neuroreceptors, retina, neurotransmitters, neural
                                                                                       behavior, Chelonia mydas, green turtle, 1,400-mile journey
      synapse, cytology, neuromuscular synapse, how cells communicate
                                                                                                                                  1965 May p 78-86 [1010]
                                                  1961 Sept p 209-220 [93]
                                                                                  net reproduction rate, demographic transition, population growth, world
   biological wiences, mathematics, self-reproducing machine, predation,
                                                                                       population, zero population growth, birth rate, gross reproduction
      Turing machine, automata theory, mathematics in biologs
                                                                                       rate, extrapolation from world-statistics population model
                                                                                                                                  1973 Mar. p. 15-23 [683]
                                                       1964 Sept p 148-164
   lacrimal gland, hypothalamus, tears, reflex, psychogenic and
                                                                                  network analysis, nodes and branches, pipelines, powergrids, graph
                                                                                                                                       1970 July p 94-103
      continuous tears
                                                          1964 Oct p 78 86
                                                                                       theory, reliability analysis
   bacterial toxin, tetanus, botulism, paralysis, inhibitory impulse,
                                                                                  network hierarchies, communication technology, communication, two-
      synapse, motor neuron, Clostridium tetani, Clostridium botulinum
                                                                                      way channels, computer-assisted instruction, information retneral,
                                                         1968 Apr. p 69-77
                                                                                      National Academy of Engineering study, 'Communications
   cell continunication, genetic code, communication, hormonal action,
                                                                                      Technology for Urban Improvement', 'wired city' concept
                                                                                                                                    1972 Sept. p 142-150
      metabolic information
                                                 1972 Sept. p. 42-51 [1257]
                                                                                 network theory, communication networks, communication satellite,
   acetylcholine, synapse, neurotransmitters, nerve-musele synapse,
      clientical mediation of neuromuscular transmission
                                                                                      electronic switching, multiplexing, radio, communication, telephone
                                                                                                                                    1972 Sept p 116-128
                                               1977 Feb. p 106-118 [1352]
                                                                                      systems, television systems
                                                                                 networks, complexity theory, switchboards, mathematics from networks
 nerve inhibition, central nervous system, reflex are, neuromuscular
                                                                                                                             1978 June p 114-124 [3013]
      control, muscle contraction, interneuron, motor neuron, stretch
                                                                                      and switching systems
                                                                                 neural organization, leeches, nerve cells, nerve physiology, nerve signals.
      reflex, Renshaw cell, synapse
                                                      1966 May p 102-110
nerve membrane, nerve impulse, action potential, refractory period.
                                                                                     nervous system, reflex are, neuro motor synapse
                                                                                                                                1974 Jan p 38-48 [1287]
     sodium ion potential, nodes of Ranvier
                                                   1952 Nov. p. 55-65 [20]
                                                                                neural synapse, cell communication, central nervous system, nerve
nerve-muscle synapse, acetylcholine, nerve impulse, synapse,
                                                                                     conduction, ganglion reflexes, neuroreceptors, retina, nerve impulse,
     neurotransmitters, chemical mediation of neuromuscular
                                              1977 Feb. p. 106-118 [1352]
                                                                                     neurotransmitters, cytology, neuromuscular synapse, how cells
     transmission
                                                                                                                              1961 Sept p 209-220 [98]
nerve network, locust, muscle contraction, insect flight, flight control
                                                                                     communicate
                                                                                neuro motor synapse, leeches, neural organization, nerve cells, nerve
                                                        1968 May p. 83-90
     system, inhibitory impulse
                                                                                     physiology, nerve signals, nervous system, reflex arc
nerve physiology, leeches, neural organization, nerve cells, nerve signals,
                                                                                                                               1974 Jan p 38-48 [1287]
     nervous system, reflex arc, neuro motor synapse
                                                                               neurohumoral factors, hormone, hypothalamic hormone, luteinizing
                                                 1974 Jan. p. 38-48 [1287]
                                                                                    hormone, pituitary control, thyroid-stimulating hormone, TSH
   acetylcholine, adrenalin, catecholamines, dopamine, drug effects,
                                                                                                                              1972 Nov p 24-33 [1260]
                                                1974 June p. 58-71 [1297]
     neurotransmitters, noradrenalme
nerve poisons, algal bloom, Dinoflagellata, marine ecology, acetylcholine,
                                                                               neurology, blood-brain barrier, epilepsy, brain metabolism.
                                                                                    neurophysiology, physiology of the barrier and its reinforcement
                                                       1958 Aug. p 92-98
     poisonous tide
                                                                                                                                  1956 Feb p 101-106
  acetylcholine, acetylcholinesterase, nerve gases, citric-acid cycle,
                                                                                 axon, nerve conduction, Schwann cell, axoplasm, membrane potential,
     alkaloids, toxins, lethal mechanisms at cellular level
                                                                                   perfusion technique, cell perfusion, structure of axonal tube,
                                                      1959 Nov. p. 76-84
nerve regeneration, vision, learning, visual perception, embryonic
                                                                                   physiology of neural transmission, concentration gradients
                                                                                                                            1966 Mar p 74-82 [1038]
     development, inborn 'hard wiring' of nerve circuitry
                                                                                auditory beats, brain, hearing, sound vibrations, auditory perception
                                                1956 May p. 48-52 [1090]
                                                                                                                            1973 Oct p 94-102 [1282]
nerve signals, brain circuitry, microscopy, nerve structure, olfactory
                                                                              neuromuscular control, central nervous system, reflex arc, muscle
     system, staining techniques, Golgi stain, Nissl stain
                                                                                  contraction, nerve inhibition, interneuron, motor neuron, stretch
                                                1971 July p. 48-60 [1227]
                                                                                                                                1966 May p 102-110
  brain circuitry, mammalian brain, sensory systems, stimulus
                                                                                  reflex, Renshaw cell, synapse
                                                                              neuromuscular synapse, nervous system, nerve impulse, nerve excitation,
    localization, visual perception, superior colliculus in integration at
                                                                                  inhibitory impulse, neurotransmitters, acetylcholine, dynamics of
                                                1972 Dec. p. 72-82 [553]
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inhibition

brain function

leeches, neural organization, nerve cells, nerve physiology, nervous

system, reflex arc, neuro motor synapse

1974 Jan. p. 38-48 [1287]

30,000-year-old artifact	1960 Sept p 100	nitrogen fertilizer, energy cycle, nutrient cycle, soil structure, food and
Mississippi Valley solar observatory	1964 Sept p 84	agriculture, food chain 1976 Sept p 74-86 nitrogen fixation, heat, chemistry, regenerative furnace, temperature
Mexican and Canadian sites	1967 June p 57	
Marmes man oldest North American(7)	1968 June p 44	limits, high temperatures chemistry 1954 Sept p 109-119 bacteria, nitrogen cycle, blue-green algae, Haber process, biosphere,
13,600-year-old birovac	1968 Oct p 61	mtrate, legumes, eutrophication 1970 Sept p 136–146 [1194]
first settlers	1972 Jan p 51 1973 May p 44	forestry, ecosystem, resource management, runoff, erosion, watershed,
role of man in large-mammal extinctions		deforestation, deforestation experiment 1970 Oct p 92–101 [1202]
see also Amerindian, Aztec civilizaton, Folsom	enion central city	legumes, agronomy, soybean products, plant protein
New York, local government, cities, metropolitan r suburbs, Northeast Corridor, regional planni	egion, contrai etty,	1974 Feb p 14-21
suburos, Normeasi Comdoi, regional plante	1965 Sept p 134-148	ammonia manufacture, biological nitrogen fixation, Haber process,
New Zealand flightless birds, moas, extinction, ev		metallo-organic process 1974 Oct p 64-70
14CH ZZZMIMO Mighiress on asy moust enterent	1954 Feb p 84-90	algae, bacteria, legumes, nitrogenase, genetic engineering, Haber
Newcomen engine, steam engine, mine drainage,		process, rhizobium, legumes, symbiosis, nitrogenase, biological
Watt, pumps, Industrial Revolution, origins	of steam engine	mtrogen fixation 1977 Mar p 68-81
•	1964 Jan p 98-107	nitrogen gas, product of mamalian metabolism 1968 July p 50
Newfoundland, Viking site	1964 Jan p 56	nitrogen mustard, cancer therapy, radiation damage, carcinogenesis, mutation, nuclear medicine, chemical imitation of radiation injury
newspapers, content analysis, military secrecy, C	ongressional	mutation, nuclear medicine, chemical infration of radiation injury
investigation, 'Condon case', content analys	1949 Feb p 16-21	nitrogenase, algae, bacteria, legumes, nitrogen fixation, nitrogenase,
of political attacks on E. U. Condon newt, regeneration, cell differentiation, cockroac		genetic engineering, Haber process, rhizobium, legumes, symbiosis,
experiments, embryonic development, biolo	n, embryo-grant	biological nitrogen fixation 1977 Mar p 68-81
experiments, emoryonic development, broke	1977 July p 66–81 [1363]	algae, bacteria, legumes, nitrogen fixation, genetic engineering, Haber
Newton, calculus, mechanics, optics, life and wo	rk of Isaac Newton	process, rhizobium, legumes, symbiosis, nitrogenase, biological
Tromong culculus, incomanies, opines, incoma	1955 Dec p 73-80	nitrogen fixation 1977 Mar p 68-81
as sleuth	1958 Sept p 96	Nixie tubes, integrated circuits, light-emitting diode, liquid crystals,
insight into private life	1963 Sept p 88	numeric displays 1973 June p 64–73
as data fudger	1973 Apr p 44	NOAA: National Ocean and Atmosphere Administration
Newton body, rheology, flow of matter, Hooke b	oody, St Venant body,	NOAA, US ocean and atmosphere agency 1970 Dec p 40 Nobel prizes, science history, 1949 awards in physics, to Hideki
	959 Dec p 122-138 [268]	Yukawa, in chemistry, to William F. Giaque, in physiology and
Newton's third law, cardiology, medical diagnos	1958 Feb p 89-95	medicine, to Walter R Hess, Antonio Moniz, for peace, to John
Nichol prism, animal navigation, polarized light	5	Boyd-Orr 1949 Dec p 11–17
horseshoe crab	1955 July p 88–94	education, university education, sociology, scientific careers, sociology
nickel plating, by chemical bath	1953 May p 56	of the Nobel prizes 1967 Nov p 25–33
nidation, contraception, birth control, reproduc		in physics, to Murray Gell-mann, in chemistry, to DHR. Baron,
fertilization	1954 Apr p 31-34	Odd Hassel, in physiology and medicine, to Max Delbruck, Alfred
fetus as transplant, histocompatability, immu		D Hershey, Salvador Luna, in economics, to Ragnar Frisch, Jan
immunological privilege, reproduction, tro	phoblast, placenta 1974 Apr p 36–46	Tinbergen 1969 Dec p 48-50 m physics, to P M S Blackett, in chemistry, to Arne Tiselius, in
Nigena, industrial technology, economic develo		Physiology and medicine, to Paul H Muller 1948 Dec p 26
transfer, tribal politics economic developm		in physics, to Cecil F Powell, in chemistry, to Kurt Adler, O P H
region	1963 Sept p 168-184	Diels, in physiology and medicine, to Phillip S Hench, Edward C
night blindness, electroretinography, vitamin A		Kendall, Tadeus Reichstein 1950 Dec p 26
rhodopsin bright-light exposure, retinitis i	pigmentosa, night	in physics, to John D Cockroft, ETS Walton, in chemistry, to
blindness in rat action of vit A on eye	1966 Oct p 78-84 [1053]	Edwin M McMillan, Glenn T Seaborg, in physiology and medicine,
mightglow, Earth aurora airglow, corpuscular s		to Max Theiler 1951 Dec p 34
aurora and airglow Nile crocodile, animal behavior, crocodile, pare	1955 Sept p 140-150	in physics, to Felix Bloch, Edward M Purcell, in chemistry, to AJ P Martin, R L M Synge, in physiology and medicine, to Selman A
rate crocodite, animai behavior, crocodite, pare	1976 Apr p 114–124	Waksman 1952 Jan p 29
Nile prehistory, climate, cultural evolution, hui	nter-gatherer societies,	in physics, to Fritz Zernike, in chemistry, to Herrmann Standinger.
Paleolithic settlements, stone tools	1976 Aug p 30-38	in physiology and medicine, to Hans A Krebs Fritz A Lipmann
Nile valley, Egyptian civilization Sakkara, bur		1953 Dec p 48
the first pharaohs	1957 July p 106-116	in physics, to Max Born, Walther Bothke, in chemistry, to Linus C
niobium allovs, electromagnetism magnetism beam focusing, generation of intense mag		Pauling in physiology and medicine, to John F Enders, Frederick
beam focusing, generation of finelise mag	1967 Mar p 114–123	C Robbins, Thomas H Weller 1954 Dec p 52 in physics, to Polykarp Kush, Willis E. Lamb, in chemistry, to
mirate, bacteria nitrogen cycle, nitrogen fixati	on, blue-green algae,	Vincent du Vigneaud, in physiology and medicine, to AHT
Haber process biosphere, legumes eutrop	phication	Theorett 1955 Dec. p. 46
1	970 Sept p 136-146 [1194]	in physics to John Bardeen, Walter H. Brattain, William Shockley, in
nitrifiers, nitrogen biological nitrogen fixation		chemistry, to Cyrrl N Hinshelwood Nikolai N Semenov, in
nitrogen cycle legumes nitrogen, biological nitrogen fixation, ammoni	1953 Mar p 38-42	physiology and medicine, to Andre F Cournand, Werner
nitrogen evele, legumes	1953 Mar p 38-42	Forssmann, Dickinson W Richards 1956 Dec p 52 in physics, to Tsung-Dao Lee, Chen Ning Yang, in chemistry, to
atmosphere, escape velocity, photosynthesis	volcanoes, water of	Alexander R Todd, in physiology and medicine, to Daniel Boyet
crystallization oxygen origin and evoluti	ion of Earth's atmosphere	1957 Dec p 59
	1953 Aug p 82-86 [824]	age of greatest productivity 1958 Ian n 46
curbon dioxide laser infrared radiation ga dioxide laser		in physics to Pavel Cerenkov, Ilya Frank, Igor J Tamm, in chemistry
breeder reactor, use of heavy nitrogen in rea	1968 Aug p 22-33	to Frederic Sanger, in physiology and medicine, to George W
reactor fixed nitrogen	1956 Dec. n. 54	Beadle, Edward L. Tatum, Joshua Lederberg 1958 Dec. p 52
nitrogen ei ele, nitrogen biological nitrogen fi	ixation ammonia nitrifiers	in physics, to Owen Chamberlain, Emilio G Segré, in chemistry, to Jaroslav Heyrovsky, in physiology and medicine, to Arthur
acminier legumes	1953 Mar to 38_42	
bacteria nuro, en fixation blue green algae	Haber process biosphere	in physics, to Donald A Glazer, in chemistry to Willard E Libbi in
nitrite legumes eutrophication I rest comminutes lichens ecolos s algae	1970 Sept. p. 136-146 [1194]	physiology and medicine to Mac Farlane Burnet, Peter B Medawar
centricus	1973 June p 74-80 [1274]	1960 Dec p 74
	11 much 14-20 [1714]	344 F 14

particle accelerator, National Accelerator Labo synchrotron	1074 17-1 20 00
neutrino interactions, electromagnetic force, parti-	1974 Feb p 72-83
theory, 'weak' force, neutral-weak-current in	teractions
	1974 Dec p 108-119
neutrino scarcity, implications for solar fusion	1060 Tules - 40
neutron, elementary particles, electron, proton, pa	rticle counters
position, mesons, photon, neutrino, particle a	ccelerator, nuclear
binding force, 'Meson Song'	1948 June n 26 20
hadron, neutron diffraction, the neutron as nucl	lear particle and as tool
or physics	1951 Oct n 44 52
electromagnetic force, nuclear forces, proton, m	esons, particle
scattering, high-energy physics, fundamental the nucleus together?	
photographic emulsion, particle tracks, cosmic r	1953 Sept p 58-63
electron, characteristic 'signatures' of particles	adiation, proton,
crystal structure, radiation, nuclear fission, solid	state physics effects
of radiation on solids	956 Aug p 76–84 [245]
atomic nucleus, shell model, optical model, high-	energy physics, hand-
drop model, charge exchange, spin-orbit force	, resonance 'particles'.
proton, structure of the nucleus	1959 Jan p 75-82
nuclear fission, heavy nuclei, liquid-drop model,	urantum 235, shell
model, fission fragments	1965 Aug p 49-59
atoms, elementary particles, electron, proton, ma	itter, structure of
'ordinary matter' alpha clustenng, alpha particles, atomic nucleus,	1967 May p 126-134
nuclear clustering, nuclear forces, nuclear surfa	elementary particles,
water transfirms, national forces, national surfa	1972 Oct p 100-108
asymmetrical decay	1957 Sept p 56
magnetism un-explained	1958 Feb p 48
photon, weak as well as strong interaction	1965 Feb p 51
wave-particle duality in gravitational field	1976 Jan p 61
neutron activation, microanalysis, trace elements, ra properties	dionuclides, decay
sensitive detector	1967 Apr p 68-82 1952 Oct p 40
arsenic murder revealed	1969 Mar p 52
neutron beam, fission reactor, monochromator, neut	
neutron flux, reactor as research instrument	
	3 Aug p 23-29 [219]
neutron-beam-scattering technique, cell structure, pr ribosome, structure of ribosome	1976 Oct p 44–54
neutron bomb, arms race, atomic weapons, tactical n	
decision to develop and deploy enhanced radiat	ion weapons
1978	May p 44-51 [3007]
finas congressional enthusiasts	1961 Aug p 60
eutron cross sections, atomic nucleus, nuclear struct	1955 Dec p 84–91
'cloudy crystal ball' eutron decay, neutrino, elementary particles, alpha	
setting trap for detection of theoretical particle	1956 Jan p 58–68
eutron diffraction, neutron, hadron, the neutron as r	nuclear particle and
as tool of physics	1951 Oct p 44-53
fission reactor, neutron beam, monochromator, neurosearch instrument 1953	Aug p 23-29 [219]
eutron-electron 'atom', temporary bound species	1969 Dec p 54
eutron flux, fission reactor, neutron beam, monochro	omator, neutron
diffraction reactor as research instrument 1953	Aug p 23-29 [219]
eutron radiography, thermal neutrons, fission reactor	r, nondestructive ov p 107–119 [287]
testing, neutrons as inspection tool 1962 Neutron scattering, helium, supercooling, superfluidity	fountain effect.
'quasi particles' model of liquid helium 1960 No	ov p 138-150 [272]
nortable pile	1950 Jan p 29
autron enectroscopy, atomic nucleus, spectroscopy, it	ist neutrons
nuclear probe, structure of atomic nucleus eutron stars, Crab Nebula, X-ray astronomy, sychrot	1964 Mar p 79–88
Scorpius, X-ray astronomy by rocket-borne instru	iments
	1304 June P 30 43
pulsar, white dwarfs, gravitational collapse, angular	momentum
'lighthouse' model proposed	1968 Oct p 25-35
'lighthouse' model proposed Crab Nebula, pulsar, radio source, stellar evolution,	1971 Jan p 48–60
collapse, angular momentum gravitational collapse pulsar, stellar evolution solid	stars white
dwarfs, ultradense matter	1971 Feb p 24-31
black hole, gravitational waves, pulsar, relativity the	1972 May p 38-46
stars, rotational energy, white differences X-ray astron	omv, X-rav
binary stars black note, pulsar, quantity	1972 July p 26-37
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black hole, interstellar gas, magnetohydrodynamics, pulsar, stellar
          evolution, supernovae, X-ray sources
                                                           1975 Dec p 38-46
       black hole, cosmic radiation, gamma-ray astronomy, pulsar, satellite
         astronomy, Cygnus X-1
                                                          1976 Oct p 66-794
       black hole, binary stars, galactic energetics, globular cluster stars
         stellar evolution, X-ray stars, astronomy satellites, bursters
                                                      1977 Oct p 42-55 [385]
    neutron structure, high-energy physics, proton model, quark, scattering
         experiments, 'strong' force, virtual particles
                                                           1971 June n 60-77
    New Covenanters, Dead Sea scrolls, Judaism, Biblical archeology,
         Qumran site
                                                          1971 Nov p 72-81
    New Guinea, animal husbandry, ecosystem, energy cycle, agnicultural
         system, power, tropical agriculture
                                                   1971 Sept p 116-132 [666]
    New World archeology, riparian sites, public works, reservoir dam
         building, crisis in US archeology
                                                          1948 Dec p 12-17
      corn, genetics, teosinte, tripsacum, pod corn, popcorn, hybrid cells
        plant genetic experiment and archeological finds point to pool com
                                                      1950 July p 20-24 [26]
        as wild ancester of maise
      Benng land bridge, MacKenzie river, human migration 'How man
                                                          1951 Jan p 11-15
        came to North America'
      Folsom man, stone tools, Cochise culture
                                                          1951 Feb p 15-19
      Pine Lawn Valley, Cochise culture, Mogolion culture, 2500 B C to
                                                          1951 July p 46-51
        1300 A D in New Mexico
     Peru, photogrammetry, pre-Inca cities mapped by aerial photograph)
                                                         1951 Aug p 18-23
     mound builders, agricultural revolution, statistical seriation,
       Mississippian culture, pre-Columbian Mississippi valley on verge of
                                                         1952 Mar p 22-27
        urban revolution
                                                         1954 Aug. p 28-34
     Peru, Viru valley
                                                       1955 Mar p 98-104
     Peru, Playa Grande culture, history of a dig
     Maya civilization, decline and fall of Maya civilization
                                                         1955 May p 82-88
    mining, gypsum, Amerindian, prehistoric man in Mammoth cave
                                                       1960 July p 130-140
    plant migration, oceanography, animal migration, Bering land bridge
      continental shelf, glaciation, Wisconsin glaciation, animal plant
                                                      1962 Jan p 112-123
       migration, Asia-North America
    agricultural revolution, Mexican agriculture, corn, urbanization New
                                                  1964 Nov p 29-37 [625]
      World agricultural revolution
                                                      1964 Dec p 90-102
    Amerindian, Hopewell cult, burial mounds
   climate, Peru Current, Inca civilization, environmental influences on
                                                        1965 Oct p 68-76
      early Peruvian cultures
   pottery, human mugration, navigation, Japan, Ecuador, evidence for
                                                        1966 Jan p 28-35
      3,000 B C trans-Pacific contact
   metallurgy, New World archeology, Old Copper culture, Peru copper
      gold, lost-wax casting, metalwork, pre Columbian, New World
                                                       1966 Apr p 72-81
     4,000 B C
   metallurgy, New World archeology, Old Copper culture, Peru copper
     gold, lost-wax casting metalwork, pre Columbian, New World
                                                      1966 Apr p 72-81
     4,000 B C
  Clovis culture, hunting, mammoth-bone deposits Folsom points
                                                    1966 June p 104-112
     elephant extinction
  Paleo-Indians, hunting, bison, Olsen-Chubbuck site, reconstruction of
                                                      1967 Jan p 44-52
     bison hunt, kill, butchering
  Amerindian prehistory, Teotihuacan, Middle America Mexico pre-
                                                     1967 June p 38-49
    Columbian metropolis
  Arawak Indians, earthworks flood plain, agricultural system ridged
                                                    1967 July p 92-100
 stone tools, South America, early man in New World 12 000 B C
                                                    1967 Nov p 44 50
 Onion Portage site, Eskimo Bering land bridge human migrition
                                                    1968 June p 24 31
   Alaska, stone artifacts, gateway to America
 West Indies, Hispaniola, stone artifacts island chains sea routes
   seafaring hunters from Central America? 1969 Nov p 42-52 [652]
 Amerindian Eskimo, burial site, 2000 B C. Port au Clinix
                                            1970 June p 112-121 [657]
   Newfoundland skeletons
 Amerindian Iroquois Confederacy, cannibalism Onindiga tribe
                                              1971 Feb p 32-42 [658]
Maya cermonial center, stelae cult. British Honduras. I ubrantun
                                                   1972 May p 82-91
   Pusilha sites
Amerindian burial mounds Cahokia Mississippian culture
                                            1975 Aug p 92-101 [C º]
                                                1976 Nov p 122 129
Amerindian hurial mounds Labrador
                                                1977 Mir p 116 133
Maya civilization
                                                      1919 Mis p 27
prehistoric cornerib found
                                                     1953 Mar p
400 000 years ago"
                                                     1954 Sept p 7/
Folsom bones
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30,000-year-old artifact	1960 Sept. p. 100	nitrogen fertilizer, energy cycle, nutrient cycle, soil structure, food and
Mississippi Valley solar observatory	1964 Sept. p. 84	agriculture, food chain 1976 Sept. p. 74-86
Mississippi valley solal observatory	1967 June p. 57	nitrogen fixation, heat, chemistry, regenerative furnace, temperature
Mexican and Canadian sites		limits, high temperatures: chemistry 1954 Sept. p. 109–119
Marmes man oldest North American(?)	1968 June p. 44	
13,600-year-old birovac	1968 Oct. p. 61	bacteria, nitrogen cycle, blue-green algae, Haber process, biosphere,
first settlers	1972 Jan. p. 51	nitrate, legumes, eutrophication 1970 Sept. p. 136-146 [1194]
role of man in large-mammal extinctions	1973 May p. 44	forestry, ecosystem, resource management, runoff, erosion, watershed,
see also: Amerindian, Aztec civilizaton, Folsom		deforestation, deforestation experiment 1970 Oct. p. 92-101 [1202]
New World I and assessment cities metropoliton to	gion central city	legumes, agronomy, soybean products, plant protein
New York, local government, cities, metropolitan re	gion, central erty,	1974 Feb. p. 14–21
suburbs, Northeast Corridor, regional planni	ng 104 140	ammonia manufacture, biological nitrogen fixation, Haber process,
	1965 Sept. p. 134-148	
New Zealand flightless birds, moas, extinction, evo	olution, hunting	
	1954 Feb. p. 84-90	algae, bacteria, legumes, nitrogenase, genetic engineering, Haber
Newcomen engine, steam engine, mine drainage, t	echnology history.	process, rhizobium, legumes, symbiosis, nitrogenase, biological
Watt, pumps, Industrial Revolution, origins	of steam engine	nitrogen fixation 1977 Mar. p. 68-81
watt, pamps, maassaar revolution, origins	1964 Jan. p. 98-107	nitrogen gas, product of mamalian metabolism 1968 July p. 50
Manufacca Res & Wilder alto	1964 Jan. p. 56	nitrogen mustard, cancer therapy, radiation damage, carcinogenesis,
Newfoundland, Viking site		mutation, nuclear medicine, chemical imitation of radiation injury
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investigation, 'Condon case', content analysis	s of newspaper coverage	
	1949 Feb. p. 16–21	nitrogenase, algae, bacteria, legumes, nitrogen fixation, nitrogenase,
newt, regeneration, cell differentiation, cockroach	, embryo-graft	genetic engineering, Haber process, rhizobium, legumes, symbiosis,
experiments, embryonic development, biolog	ical form	biological nitrogen fixation 1977 Mar. p. 68-81
1	977 July p. 66-81 [1363]	algae, bacteria, legumes, nitrogen fixation, genetic engineering, Haber
Newton, calculus, mechanics, optics, life and wor		process, rhizobium, legumes, symbiosis, nitrogenase, biological
remon, calculus, mechanics, opines, me and wor	1955 Dec. p. 73-80	nitrogen fixation 1977 Mar. p. 68-81
an almost		Nixie tubes, integrated circuits, light-emitting diode, liquid crystals,
as sleuth	1958 Sept. p. 96	
insight into private life	1963 Sept. p. 88	
as data fudger	1973 Apr. p. 44	NOAA: National Ocean and Atmosphere Administration
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how solids flow 19	59 Dec. p. 122-138 [268]	Nobel prizes, science history; 1949 awards in physics, to: Hideki
Newton's third law, cardiology, medical diagnosis	ballistocardiography	Yukawa; in chemistry, to: William F. Giaque; in physiology and
, 0,,	1958 Feb. p. 89-95	medicine, to: Walter R. Hess, Antonio Moniz; for peace, to: John
Nichol prism, animal navigation, polarized light,		Boyd-Orr 1949 Dec. p. 11–17
horseshoe crab	1955 July p. 88-94	education, university education, sociology, scientific careers, sociology
nickel plating, by chemical bath	1953 May p. 56	of the Nobel prizes 1967 Nov. p. 25–33
		in physics, to: Murray Gell-mann; in chemistry, to: D.H.R. Baron,
nidation, contraception, birth control, reproduct		Odd Hassel; in physiology and medicine, to: Max Delbrück, Alfred
fertilization	1954 Apr. p. 31–34	D. Hamber, Calundar Lucia in accommiss to Dames Erisch, Ian
fetus as transplant, histocompatability, immur		D. Hershey, Salvador Luria, in economics, to: Ragnar Frisch, Jan
immunological privilege, reproduction, trop		Tinbergen 1969 Dec. p. 48-50
***	1974 Apr. p. 36-46	in physics, to: P. M. S. Blackett; in chemistry, to: Arne Tiselius, in
Nigeria, industrial technology, economic develop		Physiology and medicine, to: Paul H. Muller 1948 Dec. p. 26
transfer, tribal politics, economic developm	ent of former colonial	in physics, to: Cecil F. Powell; in chemistry, to: Kurt Adler, O.P.H.
region	1963 Sept. p. 168-184	Diels; in physiology and medicine, to: Phillip S. Hench, Edward C.
night blindness, electroretinography, vitamin A	deficiency, opsin,	Kendall, Tadeus Reichstein 1950 Dec. p. 26
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                                                     1961 Nov p 66-76 [150]
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    nonlinear optics, crystallography, laser, light refraction light interactions
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    nonmetals, crystal structure solid state electronics X-ray
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sodium ion potential nerve membrane

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effect, thermonuclear reaction, thermonucle power fission reactor, breeder reactor, energy econom U K fusion reactor, magnetic bottle, plasma confine fusion reactor r	in 1955 Oct p 36-66 ar energy for domestic 1957 Dec p 73-84 [236] ares atomic power in 1958 Mar p 29-35 ement, deuterium. 1958 Oct p 28-35 sign of reactor fuel	fusion reactor, fusion reactor technology US utilities' orders increase pumped-storage plani situation in US plants in US natural reactor, CANDU reactor California referendum slowdown in US	1967 Jun p 24 1969 July p 52 1971 June p 54 1972 Oct p 47 1975 July p 45 1976 Feb p 53 1976 Mar p 40 \
effect, thermonuclear reaction, thermonucle power fission reactor, breeder reactor, energy econom U K fusion reactor, magnetic bottle, plasma confine tritium magnetic pumping stellerator energy economics, fission reactor, fuel rods de-	1955 Oct p 36-66 ar containment, pinch ar energy for domestic 1957 Dec p 73-84 [236] nics atomic power in 1958 Mar p 29-35 ement, deuterium, 1958 Oct p 28-35 sign of reactor fuel 1959 Feb p 37-43	fusion reactor, fusion reactor technology US utilities' orders increase pumped-storage plani situation in US plants in US natural reactor, CANDU reactor California referendum slowdown in US safety assessed	1967 Jan p 24 1969 July p 52 1971 June p 54 1972 Oct p 47 1975 July p 45 1976 Feb p 53 1976 Mar p 40 1976 June p 42
effect, thermonuclear reaction, thermonucle power fission reactor, breeder reactor, energy econom U K fusion reactor, magnetic bottle, plasma confine tritium magnetic pumping stellerator energy economics, fission reactor, fuel rods de elements	1955 Oct p 36-66 ar containment, pinch ar energy for domestic 1957 Dec p 73-84 [236] nics atomic power in 1958 Mar p 29-35 ement, deuterium, 1958 Oct p 28-35 sign of reactor fuel 1959 Feb p 37-43 nics thorium cycle,	fusion reactor, fusion reactor technology US utilities' orders increase pumped-storage plani situation in US plants in US natural reactor, CANDU reactor California referendum slowdown in US safety assessed 112 reactors 35 882 megawalis bombs into fuel rody?	1967 Jan p 24 1969 July p 52 1971 June p 54 1972 Oct p 47 1975 July p 45 1976 Yar p 60 1976 Mar p 60 1976 Aug p 44 1976 Sept p 67
effect, thermonuclear reaction, thermonucle power fission reactor, breeder reactor, energy econom U K fusion reactor, magnetic boitle, plasma confine tritium magnetic pumping stellerator energy economics, fission reactor, fuel rods de elements fission reactor, breeder reactor, energy economics.	1955 Oct p 36-66 ar energy for domestic 1957 Dec p 73-84 [236] nics atomic power in 1958 Mar p 29-35 ement, deuterium. 1958 Oct p 28-35 sign of reactor fuel 1959 Feb p 37-43 nics thorium cycle, 1960 Jan p 82-94	fusion reactor, fusion reactor technology US utilities' orders increase pumped-storage plani situation in US plants in US natural reactor, CANDU reactor California referendum slowdown in US safety assessed 112 reactors 35 882 megawalis bombs into fuel rods' policy of Carter administration	1967 Jan p 24 1969 July p 52 1971 June p 54 1972 Oct p 4/ 1975 July p 45 1976 Feb p 53 1976 Mar p 40A 1976 June p 42 1976 Aur p 44A 1977 Sept p 44 1977 June p 51
effect, thermonuclear reaction, thermonucle power fission reactor, breeder reactor, energy econom U K fusion reactor, magnetic bottle, plasma confine tritium magnetic pumping stellerator energy economics, fission reactor, fuel rods de elements	1955 Oct p 36-66 ar energy for domestic 1957 Dec p 73-84 [236] nies atomic power in 1958 Mar p 29-35 emeni, deuterium, 1958 Oct p 28-35 sign of reactor fuel 1959 Feb p 37-43 nies thorium cycle, 1960 Jan p 82-94 poulle, magnetic shear,	fusion reactor, fusion reactor technology US utilities' orders increase pumped-storage plani situation in US plants in US natural reactor, CANDU reactor California referendum slowdown in US safety assessed 112 reactors 35 882 megawalis bombs into fuel rody?	1967 Jan p 24 1969 July p 52 1971 June p 54 1972 Oct p 47 1975 July p 45 1976 Yar p 60 1976 Mar p 60 1976 Aug p 44 1976 Sept p 67

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fission reactor plants producing visible per centa	ge of US electricity	RNA, nucleic acid, alanine, tRNA, enzyme cleavage, traginent assembly, first nucleotide sequence 1966 Feb p 30–39 [1033]
	1978 June p 74	DNA, E. coli, gene structure, viral DNA, bacterial virus 0×174, plus-
see also nuclear energy nuclear probe, atomic nucleus, spectroscopy, fast n	eutrons neutron	and-minus method 1977 Dec p 54-67 [1374]
spectroscopy, structure of atomic nucleus	1964 Mar p 79–88	nucleus, ribosome, protein synthesis, DNA, mRNA, tRNA, chromosome,
atomic nucleus, nuclear fission, charge distributi		cytology, how cells make molecules 1961 Sept p 74-82 [92]
and size of nucleus	1969 Aug p 58-73	elementary particles, energy levels, atom, high-energy physics,
nuclear propulsion, ion propulsion, nuclear rocket,	space technology,	spectroscopy, 'three spectroscopies' 1968 May p 15-19
rocket propulsion by nuclear reactions	1959 May p 46-51	leukocyte, DNA, Miescher, spermatozoon nucleus, chromatin.
ın submarıne Nautılus	1955 May p 50	hereditary material, discovery of DNA 1968 June p 78–88 [1109]
US warships	1970 June p 46	nucleus transplantation, cell differentiation, clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo, gene regulation
nuclear radiation, effect on man	1956 Jan p 44	1968 Dec p 24-35 [1128]
irradiated polyethylene	1957 Mar p 66 1959 Dec p 80	number concepts, cardinal numbers, child development, mathematics
maximum permissible levels nuclear reaction, chemical reaction, hot-atom chemical		education, mathematics history, ordinal numbers
chemistry at high velocity	1966 Jan p 82–90	1973 Mar p 101-109
nuclear reactor, Norway, at Kieller, Norway	1951 Dec p 30-32	number theory, Srinivasa Ramanujan, mathematics history, obituary by
tritium, cosmic radiation, lithium, radioisotope,		G H Hardy 1948 June p 54-57
	1954 Apr p 38-40	magic squares, binary anthmetic, prime number, composite numbers
energy conservation, energy resources, fission re	actor, nuclear-waste	1951 July p 52–55
disposal, atomic-weapon proliferation, Rasm	ussen report	mathematics, computer, computer finds five perfect numbers
1	1976 Jan p 21–31 [348]	1953 Mar p 84–86
at Brookhaven, on stream	1950 Oct p 25	mathematics, negative numbers, irrational numbers, complex numbers,
10kW research reactor	1950 Dec p 29	matrix 1964 Sept p 50-59 Benford's Law, probability, digits, first-digit distribution
open (declassified) face	1951 June p 30	1969 Dec p 109–120
waste heat warms buildings	1952 Jan p 42	Gauss, mathematics history, Disquisitiones Arithmeticae
for submarines	1953 May p 53 1954 May p 48	1977 July p 122–131 [371]
\$200 million program	1954 May p 48	numeric displays, integrated circuits, light-emitting diode, liquid crystals,
Chalk River breakdown	1954 Dec p 53	Nixie tubes 1973 June p 64–73
patented in 1939 safety weighed	1975 Sept p 53	numerical instructions, automatic control, machine tool, batch process,
see also fission reactor, fusion reactor, breeder		digital-to-analogue conversion, automatic machine tool
nuclear reactor design, still classified	1953 Mar p 45	1952 Sept p 101–114
nuclear rocket, nuclear propulsion, ion propulsion		numerical taxonomy, botany, taxonomy, set theory, computer
rocket propulsion by nuclear reactions	1959 May p 46-51	applications, zoology, computer classification of living things
feasibility minimized	1949 June p 26	1966 Dec p 106-116 [1059]
nuclear-spin echo, crystal structure, phase memor		numismatics, archeology, coins, statistics, Taxila hoard, India
	1968 Apr p 32-40	1966 Feb p 102–111
nuclear stability, alpha decay, transuranium elem		coins, counterfeiting, Roman Britain 1974 Dec p 120–130
decay, radioactive decay, 'synthetic' element	1969 Apr p 56–67	nuraghi, Mycenaean civilization, castle, Classical archeology, building construction, 1000 BC proto-castles in Sardinia 1959 Dec p 62-69
'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross:		nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, food and
'cloudy crystal ball'	1955 Dec p 84–91	agriculture, food chain 1976 Sept p 74–86
nuclear submarine, 'Thresher' post mortem	1963 Nov p 66	nutrition, see human nutrition, diet, food chain
nuclear surface, alpha clustering, alpha particles,		nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose, glass,
elementary particles, nuclear clustering, neu	tron nuclear forces,	man-made textile fibers 1951 July p 37-45
proton	1972 Oct p 100-108	in filters 1952 Aug p 34
nuclear tracks, cosmic radiation, fission-track da		
radiation, applications of charged-particle t		
miclose maste disposal anarra contemption and	1969 June p 30-39	\bigcap
nuclear-waste disposal, energy conservation, ene- reactor, fission reactor, atomic-weapon prol		U
report	1976 Jan p 21–31 [348]	oak, agronomy, auxins, plant growth, giberellin, function of plant growth
nuclear weapon, see atomic bomb, hydrogen bo	mb. neutron bomb	hormone 1957 Apr p 125–134 [11]
nucleation, fluid dynamics, liquid, supercooling	cryogenics crystal	oak blight, fungi, forestry, threat to US oak population
growth behavior of supercooled fluids	1965 Jan p 38-46	1957 May p 112–122
nucleic acid, interferon, virology, virus interferen		Chalara quercina 1950 Apr p 32
agent found to act against foreign nucleic a	_	oak blight spreads 1958 Apr p 32
DNA austria trans	1963 Oct p 46-50 [166]	obelish, a feat of Renaissance engineering 1951 June p. 58-59
RNA, nucleotide sequence, alanine, tRNA, er		obesity, human nutrition hunger, appetite, neurophysiology.
assembly, first nucleotide sequence nucleic acid 'core', virus, tobacco mosaic virus	1966 Feb p 30-39 [1033]	physiological mechanisms of overeating 1956 Nov p 108-116
dissociation and reconstitution of infective	naticles	fat metabolism tissue, hormone, fat tissue, diet, role of fat metabolism
The state of the s	1956 June p 42–47	in human physiology 1959 Dec p 70-76 baby fat, pathological obesity 1973 Aug p 44
nucleochronology, spectroscopy, age of element	s age of universe element	object concept, child development, eye-hand coordination infant
formation, mass spectroscopy, radioactive	nuclei stellar evolution	perceptions, perceptual development 1971 Oct p 30-38 [539]
supernovae	1974 Jan n 69-77	oboe, musical instruments vibrating air column, clarinet, flute, hassoon
		English horn saxophone, physics of the wood winds
nucleons, mesons particle accelerator, pions pr	roton, quark, high-energy	
nucleons, mesons particle accelerator, pions pi physics Regge trajectory, high-energy scat	tenng	1960 Oct p. 144-154
privites. Regge trajectory, high-energy scat	1967 Dec. p. 76-91	1960 Oct p 144-154
nucleoproteins, heredity, chromosome, DNA, F DNA identified as agent of heredity	tenng 1967 Dec p 76-91 NA protein synthesis 1953 Feb p 47-57 1281	observatory, astronomy, scientific instrumentation. Tycho Brahe, Sijerneborg, science history, 16th century. Hyen observatory
nucleoproteins, heredity, chromosome, DNA, F DNA identified as agent of heredity cell nucleus chromatin, chromosomal protein	tenng 1967 Dec p 76-91 NA protein synthesis 1953 Feb p 47-57 1281	observatory, astronomy, scientific instrumentation. Tycho Brahe, Sijerneborg, science history, 16th century. Hyen observatory. 1960 Feb.
nucleoproteins, heredity, chromosome, DNA, F DNA identified as agent of heredity cell nucleus, chromatin, chromosomal protein histories, oxidative phosphorylation	tenng 1967 Dec p 76-91 NA protein synthesis 1953 Feb p 47-57 [28] ns DNA gene regulation	observatory, astronomy, scientific instrumentation. Tycho Brahe, Sijerneborg, science history, 16th century. Hyen observatory. 1961 Feb. p. 118-128 obsidian, anthropology, Paleolithic culture, stone tools. Andes. El Inga
nucleoproteins, heredity, chromosome, DNA, F DNA identified as agent of heredity cell nucleus chromatin chromosomal protein histories oxidative phosphorylation nucleotide sequence, DNA, genetic exile, base is	tenng 1967 Dec p 76-91 RNA protein synthesis 1953 Feb p 47-57 [28] ns DNA gene regulation 1975 Feb p 46-57 [1315] triplets protein synthesis.	observatory, astronomy, scientific instrumentation. Tycho Brahe, Sijerneborg, science history, 16th century. Hyen observatory. 1961 Feb. p. 118-128 obsidian, anthropology, Paleolithic culture, stone tools. Andes. El Inga site, prehistoric man in the Andes. 1963 May p. 116-128 trade trace elements. Neolithic archeology. Neolithic trades.
nucleoproteins, heredity, chromosome, DNA, F DNA identified as agent of heredity cell nucleus, chromatin, chromosomal protein histories, oxidative phosphorylation	tenng 1967 Dec p 76-91 NA protein synthesis 1953 Feb p 47-57 [28] ns DNA gene regulation	observatory, astronomy, scientific instrumentation. Tycho Brahe, Sijerneborg, science history, 16th century. Hyen observatory. 1961 Feb. p. 118-128 obsidian, anthropology, Paleolithic culture, stone tools. Andes. El Inga

obstetrical labor, uterine muscle, strain gauge, measurement of forces in	Postl.
dicting muscle at delivery	Earth crust, mountain formation, isostasis, granuization, ocean basins,
occuration patterns, radio source quasars radio astronomy	tectonic processes, comprehensive review of understanding (before
fixing of radio-source position, occulation by moon	acceptance of continental drift) 1950 May p. 32-41
1966 June p. 20. 4	sonar, seismology, sedimentary cores, Albatross voyage, isotope dating
occupational cancer, cancer cancer epidemiology carcinogenesis concer-	TOTAL CAPPENTION
prevention, increased incidence of cancer sought in environmental	by Later Science, Science, Earth Cole, Parin manne,
and behavioral factors 1940 for n 11 t	geochronology, geology 1900-1950 1950 Sept. p. 36-39
occupational health, epidemiology, morbidity, mortality rates, economic	
development, income status, 'social medicine'; environment, materia	sounding, the Pacific floor 1952 Apr. p. 19-33
well-being, behavior of disease 1949 Apr. p. 11-1	
berylindering, behavior of disease 1949 Apr. p. 11-1.	Earth mantle convection 1955 July p. 36-41
disease 1000 Ann = 27.2	Pacific Ocean, earth crust, Acapulco trench, Tonga Trench, Cedros
disease 1958 Aug. p. 27-3; noise-induced hearing loss, noise pollution, auditory impairment,	7 Trough 1955 Nov. p. 36-41 [814]
industrial hygiene, public health,	submarine canyons, turbidity currents, continental shelf, submarine
loss, U.S. noise pollution legislatio	avalanches and topography of ocean floor 1956 Aug. p. 36-41
	bathymetry, sonar, gravimetry, continental shelf, sedimentary cores.
is a state of the	Lamont Geophyscial Observatory 1956 Dec. p. 83-94
occupational injuries, of housewives 1951 Mar. p. 30	bathyscaph, submarine 'blimp' 1958 Apr. p. 27-33
ocean, beaches, sand dune, sand bar, berm, surf, rip channels,	glaciation, sea level, continental unlift, sea level variations
conservation of beaches 1960 Aug. p. 80-94 [845]	1960 May p. 70-79
ocean floor, sea power, sea water, marine resources, introduction to	gravity, mid-ocean ridge, oceanography. African rifts, discovery of
single-topic issue on the ocean 1969 Sept. p. 54-65 [879]	submarine rifted ridge 1960 Oct. p. 98-110
continental shelf, glaciation, shelf sediments, marine geology	mineral resources, manganese nodules, mining industry, minerals on
1969 Sept. p. 106-122 [882]	the ocean floor 1960 Dec. p. 64-72
sea, food chain, plankton, marine ecology, fish, marine life, life in the	geomagnetism, magnetometer, magnetic reversals, patterned magnetic
ocean 1969 Sept. p. 146-162 [884]	field variations in the ocean floor 1961 Oct. p. 146-156
pollution, mineral resources, sea water, wetlands, ocean floor, physical	East Pacific Rise, subterranean heat flow, trench faults, earthquakes,
resources of the ocean 1969 Sept. p. 166-176 [885]	convection currents 1961 Dec. p. 52-61
food chain, fisheries, food supply, food resources of the ocean	seismology, Vema, explosion-generated sound waves map ocean floor
1969 Sept. p. 178-194 [886]	1962 May p. 116-126
marine technology, drilling platforms, supertankers, submersibles.	sonar, echo-sounding, plankton, deep-sea scattering layer, photic zone,
containerization, technology and the ocean	'false bottom' 1962 July p. 44-50
1969 Sept. p. 198-217 [887]	micropaleontology, foraminifera, climate history recorded in ocean
water cycle, transpiration, evaporation, runoff, agricultural system,	sediments 1962 July p. 96-106 [856]
precipitation, biosphere, photosynthesis 1970 Sept. p. 98-108 [1191]	continental drift, remanent magnetism, plate tectonics, island arcs.
origins, from water of crystallization? 1951 Jan. p. 28	Wegener hypothesis re-stated with new evidence, age of rocks
ocean abyss, abyssal life, bioluminescence, marine biology, fauna at 4000	1963 Apr. p. 86–100 [800]
meters 1957 Nov. p. 50–57	ocean, sea nower, sea water, marine resources, introduction to single.
ocean-atmosphere interface, trade wind clouds, climate, atmospheric	tonic issue on the ocean 1969 Sept. p. 34-63 (677)
circulation, cumulus clouds 1953 Nov. p. 31-35	sea-floor spreading, lava, dikes, magnetic hands, mid-ocean ridge, the
ocean basins, Earth crust, mountain formation, isostasis, granitization,	deen-ocean floor 1969 Sept. p. 120-142 (005)
ocean floor, tectonic processes, comprehensive review of	pollution ocean mineral resources sea water wetlands, physical
understanding (before acceptance of continental drift)	resources of the ocean 1969 Sept. p. 166-170 [007]
1950 May p. 32-41	bring Ded Sea bot brings calinity percolation sea-floor spreading
ocean circulation, Coriolis effect, atmospheric circulation, relativity of	1970 Apr. p. 32-42
motion 1952 May p. 72-78 [839]	submarine rifted ridge 1957 Mar. p. 66
Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature,	layer of volcanic ash on Pacific floor 1959 May p. 74
Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810]	mid-ocean ridges 1960 May p. 22
Earth, gyres, wind, upwelling, the circulation of the oceans	seismography, microseism tracking for weather forecasting
1955 Sept. p. 96-104	1960 Oct. 17. 32
Sargasso Sea, sea weed, Sargassum weed in oceanic desert	anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74
1956 Jan. p. 98-104	
climate, abyss, currents in the abyss 1958 July p. 85-90	ocean-floor animals, marine life, ocean floor photography 1975 Oct. p 84-91
Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116	
Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe	soca Libra 15
islands, bathymetry, marine biology, Soviet Arctic research	interpressure sumpres
1961 May p. 88–102	abyssal monsters, plans for trolling 1954 Feb. p. 30 ocean floor minerals, manganese nodules there for the dredging
Antarctica, Antarctic convergence, Antarctic Ocean, physical	ocean floor nunerals, manganese hoodies facte for the diseases oct p 58
oceanography of Antarctic 1962 Sept. p. 113-128 [860]	and form meteorology condensation nuclei salt narticles cloud
atmosphere, wind, climate, Coriolis effect 1969 Scpt. p. 76-86	physics run consult and run 190/ USI 15 """
Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390]	bubbles concentrate food for neuston 1964 Nov p (9)
1970 Jan. p. 114-121 [570]	ocean microstructure, energy exchange, ocean circulation, sea-water
wind, solar radiation, energy cycle, biosphere, albedo, almospheric	caling a game elering tag water temperature
circulation, climate, terrestrial radiation, carbon dioxide 'window', 1970 Sept. p. 54-63 [1189]	1973 Feb p 64-11 [903]
Earth energy cycle 1970 Sept. p. 34-03 [1105]	ocean pollution, pollution control, water quality, waste disposal in oceans
energy exchange, ocean microstructure, sea-water salinity, oceanic energy exchange, ocean microstructure, sea-water salinity, oceanic energy exchange ocean microstructure, sea-water salinity, oceanic energy exchange of the sea-water salinity exchange of the se	1974 Auf p 117 22
	ocean ridges, sea-floor spreading, continental drift, magnetic reversalt,
cast-nowing Equatorial current does sea drilling. Pacific plate, plate	origin of oceans 1909 Sept. p. 60 73 b 14
	continental drift, plate tectonics, sea-floor spreading, convection
	currents, Earth manile, tensile-stress hypothesis 1969 Nov. p. 102-119
the marine hiology Pangaga, plate tectonics	remanent magnetism, mid-Atlantic rift, pillow lava, sea-floor
427.77.77.1	and the state of the second state of the secon
ocean floor, continental shelf, submarine canyons 1949 Apr. p. 40-43 1949 Dec. p. 44-45	near rifes domes has more stand ares, plate tectomes, plames,
pocean floor, continental snew, submarine carryona 1949 Dec. p. 44-45 aerial photograph	volcanoes 1976 Aug p 46, 57 [926]
merent business. It.	

ocean sediments, meteorites, meteoritic dust, solar system evolution,	energy economics, tar sands, petroleum, shale retorts, potential liquid- hydrocarbon reserves 1966 Feb p 21–29
'cosmic spherules' in ocean sediments 1960 Feb p 123-132 carbon dioxide 'window', atmosphere, climate, biomass, humus,	Oklo phenomenon, fission products, natural reactor, nuclear fission,
'greenhouse effect', threat of 'greenhouse effect'	Precambrian reactor, uranium deposits 1976 July p 36–47
1978 Jan p 34-43 [13/6]	Olber's paradox, cosmology, universe expansion, world lines, curvature of
ocean surface, carbon dioxide, neuston, marine life, microlayer	space, red shift, galactic evolution, evolutionary universe, element formation, genesis 1954 Mar p 54-63
oceanography, rainwater composition, surfactant 1974 May p 62-77 [913]	Old Copper culture, metallurgy, New World archeology, New World
ocean temperature, Atlantic Ocean, Gulf Stream, ocean circulation,	archeology, Peru, copper, gold, lost-wax casting, metalwork, pre-
salinity, oxygen level, Coriolis effect, 'anatomy' of the Atlantic	Columbian, New World, 4,000 B C 1966 Apr p 72–81
1955 Jan p 30–35 [810]	Olduvai Gorge, human evolution, toolmakers, man-apes, hand axes, stone
ocean waves, tsunamis, seiches, surf, breakers, generation and	tools 1954 Jan p 66-71 toolmakers, man-apes, human evolution, cultural evolution, role of
propagation of ocean waves 1959 Aug p 74–84 [828]	tool-making in biological evolution of man, introduction to single-
oceanographic exploration, continental shelf exploitation, saturation diving, underwater shelters, decompression, diving	topic issue 1960 Sept p 62–75 [601]
1966 Mar p 24–33 [1036]	hominid, toolmakers, human evolution, foodsharing, evolution of
oceanography, Woods Hole, marine biology 1949 Sept p 13-17	behavior, evidence for protohuman behavior in two-million-year-old
Challenger, marine biology 1953 May p 88–94	sites 1978 Apr p 90–108 [706] human evolution, Homo habilis 1965 May p 50
Atka, icebreaker, Antarctica, I GY, introduction to a single topic issue on the planet Earth 1955 Sept p 50-55	oleoresins, essential oils, steam distillation, vacuum distillation, flavors,
gravity, ocean floor, mid-ocean ridge, African rifts, discovery of	perfumes 1953 Aug p 70–74
submanne rifted ridge 1960 Oct p 98–110	olfaction, chemical senses, taste, chemoreceptor
plant migration, New World archeology, animal migration, Bering land	1952 Mar p 28-32 [404] silkworm, taste, chemical senses, insect chemoreception, comparative
bridge, continental shelf, glaciation, Wisconsin glaciation, animal-	physiology 1958 Apr p 97–106
plant migration, Asia-North America 1962 Jan p 112–123 Antarctica, marine biology, food chain, krill, blue whale, ecology,	olfactory nerve, sensory perception, stereochemistry, stereochemical
Antarctic convergence, biological province of Antarctic convergence	theory of odor perception 1964 Feb p 42-49
1962 Sept p 186–210	enantiomers, stereochemical theory of odor 1971 Aug p 46
pollution control, international cooperation, jurisdictional disputes,	olfactory bulb, nerve circuits, dendrites, synapse, postsynaptic potential, retina, microcircuits in the nervous system
resource management, international competition and cooperation 1969 Sept p 218-234 [888]	1978 Feb p 92–103 [1380]
pneumatic breakwaters 1959 Jan p 70	olfactor, nene, sensory perception, stereochemistry, olfaction,
US Federal funding 1959 Apr p 63	stereochemical theory of odor perception 1964 Feb p 42-49
US Office of Naval Research 10 yr plan 1959 Aug p 66	olfactory receptors, sensory perception, Pacinian corpuscle, touch, taste receptors, mechanoreceptors, pain receptors, biological transducers
Vema research ship data 1960 Aug. p 71 dating epochs by foraminefera 1963 Mar p 76	1960 Aug. p 98–108 [70]
deepsea research craft 1964 May p 64	gypsy moth. biological pest control, pheromones, sex attractants, silk
US grant program announced 1967 Aug p 39	moth, chemotaxis, communication 1974 July p 28-35 [1299]
U.S. Marine Sciences Council 1969 Mar. p. 48	olfactory system, brain circuitry, microscopy, nerve signals, nerve
octopus, conditioned behavior, learning, long-term memory, short-term memory, lobotomy, touch, sensory perception, correlation of brain	structure, staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227]
structure and function in octopus 1965 Mar p 42–50 [1006]	Olsen-Chubbuck site, Paleo-Indians hunting, bison, New World
odds, chance, probability, calculus of chances, causation, philosophy of	archeology, reconstruction of bison hunt, kill, butchering
science, logician's point-of-view 1965 Oct p 44–54	1967 Jan p 44–52
odor-baited lure, insecticide, insect attractant, synthetic attractants, chemotaxis, pheromones, third-generation insecticides	Olympic games, Greek civilization, sports, Iliad account 1968 Aug. p. 78-85
1964 Aug p 20–27 [189]	omega-minus particle, alternating-gradient synchrotron, 'eightfold way',
Oedipus complex, psychoanalysis, emotional illness 1949 Jan p 22-27	bubble chamber, particle accelerator, high-energy physics, US
Office of Naval Research, science funding university research	Brookhaven National Laboratory experiment 1964 Oct p 36–45
offiap process, continental shelf, continental terrace onlap process,	ommatidia, horseshoe crab, vision, Limulus, visual perception optic nerve, horseshoe crab as laboratory animal 1956 Dec p 113-122
geology 1955 Mar p 82-86 [808]	hearing, vision, sensory organs, neuroreceptor cells cytology, taste
oil, pipelines, fluid dynamics, gas, slurries history and technology of	buds, how cells receive stimuli 1961 Sept p 222-238 [99]
pipelines 1967 Jan p 62-72 oil and gas, North Sea prospects 1966 Mar p 58	compound eye, eye insect eye 1977 July p 108–120 [1364]
oil and gas from coal, coal hydrogenation, coal liquefaction, energy	omnitron accelerator, element 126(?) 1967 Oct p 50 omnivorous chimpanzees, chimpanzee, food sharing, hunting carnivorous
economics, energy resources 1976 May p 24-29	chimpanzees feeding behavior, Gombe National Park, Tanzania
'oil birds', guacharos, sonar, bird navigation 1954 Mar p 78–83	1973 Jan p 32-42 [382]
oil consumption, petroleum oil reserves energy resources, OPEC, finite horizon of petroleum energy economy 1978 Mar p 42-49 [930]	Onandaga tribe, Amerindian, Iroquois Confederacy, New World archeology, cannibalism 1971 Feb p 32-42 [658]
oil diffusion pump, spectroscopy, vacuum ultra-high vacuum sputter-ion	archeology, cannibalism 1971 Feb p 32-42 [658] Onion Portage site, New World archeology, Eskimo, Bering land bridge,
pump, cryogenic pump, mass, vacuum down to 10 12 mm of mercury	human migration Alaska stone artifacts, gateway to America
oil drilling personal and the last of the	1968 June p. 24_33
oil drilling, petroleum industrial technology, advances in drilling technicology 1958 Nov p 99-111	onlap process, continental shelf, continental terrace, offlap process, geology 1955 Mar. p. 82-86 (508)
water 'coning' counteracted 1956 July p. 52	geology 1955 Mar p 82–86 [808] oocy togenesis, embryonic development, meiosis, mitosis, mammalian
oil drive, ultracentrifuge, molecular weight sedimentation fractionation	eggs chromosomal anomalies, ovum, in vitro fertilization
air drive magnetic suspension 900 000 g, 60 million r p m 1951 June p 42-51	1966 Aug n. 72-81 (1042)
oil gassification, coal gassification gas turbine, pollution control energy	opai colors, diffraction gemstones grain structure, periodic structures
resources 1972 Oct p. 26–35	OPFC Organization of Petroleum Exporting Countries
oll reserves, coal energy resources natural gas energy economics fossil fuel impending petroleum shortage 1956 Oct p 43-49	OPEC, petroleum oil reserves oil consumption energy resources finite
petroleum oil consumption energy resources OPI C, finite horizon of	notifoli di pelifoleum energy economy 1978 Viar - 42 40 fazos
petroleum energy economy 1978 Mar n. 42_49 19301	process 1066 Apr - 71.71
on shales, while hytory mining, energy resources fossil fuel oil from	'open' universe, cosmology, 'big bane' theory 'closed' universe and any
1952 Feb p 15-19	of the on determin anundance age of elements average density
···	1976 Mar p 62-79

obsterrical labor, uterine muscle, strain gauge, measurement of force	es in Earth crist mountain formation position
define muscle at delivery 1050 Mag =	53 EE
occuration patterns, radio source, quasars, radio astronomy, accura	te e e e e e e e e e e e e e e e e e e
fixing of radio-source position, occulation by moon	sonar, seismology, sedimentary cores, Albatross voyage, isotope da
1966 June n	30-41 Swedish deep-sea expedition 1950 Aug. p. 4.
occupational cancer, cancer epidemiology, carcinopenesis c	ancer geology sound to Tourist 1750 Aug. p 4.
prevention, increased incidence of cancer sought in environme	ntol
and behavioral factors	11 16 1930 Sept p
occupational nealth, epidemiology, morbidity, mortality rates, econ-	omic counding the Day Carte The State of the
development, income status, 'social medicine', environment or	
well-being, behavior of disease 1949 Apr p	11-15 Earth and the Country of the C
berylliosis, phosphorus, fluorescent light, chelation, high technological	
disease 1958 Aug p	27 22
noise-induced hearing loss, noise pollution, auditory impairment,	
industrial hygiene, public health, preventing noise-induced hea	submarine canyons, turbidity currents, continental shell, submanne
loss, US noise pollution legislation 1966 Dec p 66-76	
maximum irradiation limits 1960 Dec p 66-76	
1737 1910)	and the state of t
occupational injuries, of housewives 1951 Mar	
ocean, beaches, sand dune, sand bar, berm, surf, rip channels,	glaciation, sea level, continental uplift, sea level variations
conservation of beaches 1960 Aug p 80-94	[845] 1960 May n 70
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(pre-Sputnik) satellite 1956 Nov p 41–47	proposal for room-temperature superconductor 1965 Feb p 21-27
irtificial satellites, artificial satellite, forecast of lunar rocket	Organization of Petroleum Exporting Countries, see OPEC
	organometallic compounds, chelation, metal ions, sequestering, ring
	compounds, porphyrin ring, metal-poisoning antidote, chemical
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1959 Apr p 86–100 [295]	bacteria, blue-green algae, fossil cells, evolution, Gunflint cherts,
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1959 Aug p 37-43 [851]	benzene, carbon chemistry, chemical accelerators, high-energy carbon
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1960 Mar p 64-73	systems, cyclops project 1975 May p 80–89 [347]
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10(1.0	Orion nebula, nebulae, stellar evolution, ultraviolet radiation, hydrogen
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1963 Aug p 28–37	birds, geographical distribution, speciation, behavioral adaptation, bird
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1967 Oct p 67–76 [873]	flight, flight of soaring birds 1962 Apr. p 130–140
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corner reflector, Earth-Moon distance measurement	1964 Feb p 94–100
1970 Mar p 38–49	egg color-code 1958 Aug. p 54
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adaptive ability of orchids 1966 Jan p 70-78	Darwinism, experiments in acquired characteristics
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education, mathematics history, number concepts	oryx, cichlid fish, marine iguana, rattlesnake, fighting behavior, animal
1973 Mar p 101-109	behavior, comparative psychology 1961 Dec p 112-122 [470]
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1975 June p 66–75	anatomy and physiology of the kidney 1953 Jan p 40-48 [37]
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	cell membrane, tertilization, functions of cell membranes
1965 Nov p 38–46 [1023]	cell membrane, fertilization, functions of cell membranes
1965 Nov p 38–46 [1023] cell memhrane, immune response, tissue grafts, tissue-typing, self-	1961 Sept p 167-180 [96]
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1951 Mar p 15–17	response, visual perception, Craik-O'Brien effect
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'think tanks' criticized 1972 Aug p 44	transparency transparency visual perception
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1973 Oct p 100-113	optical resolution, insect eye, compound eye, color perception, insect eye, eye, color perception, insect eye, eye, eye, eye, eye, eye, eye, eye
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1900 11111 9 0 .	diffraction, light, wave-particle duality, interference consume on light waves, photon emission, introduction to single-topic issue on light 1968 Sept p 50 59
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1963 Aug p 28–37	birds, geographical distribution, speciation, behavioral adaptation, bird
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1967 Oct p 67–76 [873]	flight, flight of soaring birds 1962 Apr p 130–140
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1055il record sedimentary rock, eas chromatography, chlorophyll	metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207] ostrieh calluses, Lysenkoism, Lamarek, acquired characteristics,
nydrocarbons 'chemical lossils' 1967 fan n 22 44 13081	genotype, evolution, phenotype, mutation, speciation, religion
conformational isomerism, hydrocarbons, chemical bond	orthodoxs, Darwinism experiments in acquired characteristics
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evolution early life on Earth 1965 June p 58	Otto-Langen engine, internal combustion engine, atmospheric engine,
organic relies. Stone Age liunters peat bog. Neolithic archeology	manned charge, mixtory of Unio engine 1007 Main 100 110
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	termones, incurcul mistory triage 1077 C 120 120
1953 Oct p 84-88	outer planets, Neptune Pluto Saturn solar system Uranus
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solar system, Proneer 10 mission 1972 Jan. p 40	6
oven, ballistics, calone heat theory, science history. Rumford, heat as	
inotion, Benjamin Thomson, biography 1960 Oct p. 150 160	formation, aerobic metabolism, anaerobic metabolism, energy mechanisms in muscle 1977 Mar. p. 84-81 1039
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ovulation, twins, identical twins, fraternal twins, estrin, physiology of	sediments, paleontology, glaciation, chimatic change, measurement
twinning 1951 Ian n 48_51	
contraception, birth control, reproduction, nidation, fertilization	oxygen level, Atlantic Ocean, Gulf Stream, ocean circulation, salimits
1954 Apr. p. 21, 24	ocean temperature, Conolis effect, 'anatomy' of the Atlantic
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1950 May n 16-19	atmosphere 1970 Oct p 3
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1966 Aug p 72-81 [1047]	1968 Aug p 66-74 [1123
mitosis, fertilization, embryonic development, meiosis, blastocyst,	oxygen transport, ceruloplasmin, hemocyanin, enzymes, copper
human embryos in the laboratory 1970 Dec p 44-54 [1206]	deficiency, cytochrome oxidase, copper biochemistry, Wilson's
oxen, transportation, wheeled vehicles, carts, wagons, Transcaucasus,	disease, tyrosinase 1968 May p 102-11-
Mesopotamia, origin of wheeled transport 5,000 years ago	oysters, natural history 1953 Nov p 86-9
1968 July p 82–90	ozone, air pollution, smog, 'blue haze', atmospheric inversion
oxidation, rust, technetium, corrosion, studies in corrosion	particulates, peroxides photochemistry 1955 May p 62-72
oxidation membrane, ATP synthesis, mitochondria, electron transfer,	atmospheric tides, Earth, ultraviolet radiation, ultraviolet-radiation hypothesis 1962 Dec p 48-55
mitochondrion, proposed structure of mitochondrion	
· · ·	air pollution, smog, automobile emissions urban transport air pollution control in Los Angeles 1964 Jan p 24-31 [618]
1964 Jan p 63-74 oxidation of food, desert rat, kidney, water balance, how banner-tailed	pollution control in Los Angeles 1964 Jan p 24-31 [016] catalysis, corona discharge, free radicals, polymenzation, corona
kangaroo rat survives without water 1953 July p 73–78 [1050]	chemistry, water purification, hydrocarbon cracking
oxidation-reduction reactions, chloroplast, oxygen cycle, photosynthesis,	1965 June p 90-98
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nutochondrion, citric-acid cycle, glycolysis, membrane, energy	chloroplast, oxygen cycle, photosynthesis, biosphere, aerobic
transformation in the cell 1960 May p 102-114	match allows and dation radication reactions geological record
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metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84-94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46-57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104-123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuit semiconductor memories 1967 July p 18-31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84-95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, mirogen origin and evolution of Earth's atmosphere 1953 Aug p 82-86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley premature infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec p 40-44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108-114 by intravenous route oxygen atoms, airglow, atmosphere ionosphere, solar radiation ozone, upper atmosphere laboratory simulation atomic energy levels 1966 Mar p 102-110	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectomics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 (6) anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in prin 1957 Jan p 70 82 perception psychology neuropsychology, cultural influence on pain perception psychology neuropsychology, cultural influence on pain 1961 Feb p 41-49 [457] pain receptors, sensory perception Pacinian corpuscle touch olfactory receptors 11ste receptors mechanoreceptors hological transducers 1960 Aug p 98 103 [70] painting, art restoration \(\lambda\)-ray, microchemistry spectroscopy science in the art museum 1952 July p 22 27 information theory sculpture architecture visual communication rademarks language visual stimulus vi uni stemalistic formation and page 1972 Sent p 82 \(\lambda\) [544]
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burial site in U.S.S.R. 1965 Feb. p. 53 Paleolithic campsite, stone tools, huts, structures from 500,000 years ago	organic molecules in carbonaceous chondrites 1963 Mar. p. 43-49
1969 May p. 42–50	pantothenic acid, see: coenzyme A
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1956 July p. 83-92 [101] oxygen isotopes, temperature measurement, foraminifera, abyssal	before Euclid 1969 Nov. p. 87–98 parallel processing, computer technology, computer programming,
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twinning 1951 Jan p 48-51	sediments, paleontology, glaciation, climatic change, measurement
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1966 Aug p 72-81 [1047]	1968 Aug p 66-74 [1123]
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human embryos in the laboratory 1970 Dec p 44-54 [1206]	deficiency, cytochrome oxidase, copper biochemistry, Wilson's
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ATP, chloroplast, mitochondrion, photosynthesis, cell metabolism, glucogenesis, citric-acid cycle, glycolysis, cytology, cellular transformation of energy 1961 Sept p 62–73 [91] algae, photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memores 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babes' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route 1952 Jan p 36 oxygen atoms, airglow, atmosphere, ionosphere, solar radiation ozone, upper atmosphere, laboratory simulation atomic energy levels 1966 Mar p 102–110 oxygen-carbon balance, chloroplast, oxygen cycle, photosynthesis biosphere, aerobic metabolism ozone, oxidation-reduction reactions	elimate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, temperature of Earth, human activity and climatic change Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor f
ATP, chloroplast, mitochondrion, photosynthesis, cell metabolism, glucogenesis, citric-acid cycle, glycolysis, cytology, cellular transformation of energy 1961 Sept p 62–73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memores 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley phemature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 1952 Jan p 36 intravenous route 0 year atmosphere, laboratory simulation atomic energy levels 1966 Mar p 102–110 oxygen-carbon balance, chloroplast, oxygen cycle, photosynthesis biosphere, aerobic metabolism ozone, oxidation-reduction reactions biosphere, aerobic metabolism ozone, oxidation-reducti	elimate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, temperature of Earth, human activity and climatic change 1971 Jan p 32-42 [894] Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 70 82 perception, psychology, neuropsychology cultural influence on pain perception, psychology, neuropsychology cultural influence on pain perceptions, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors biological transducers 1960 Aug p 98 108 [70] painting, art restoration, X-ray microchemistry spectroscopy, science in the art museum 1952 July p 22 27 information theory, sculpture architecture visual communication communication trademarks language visual stimulus visual (27-2) palatalization, American languages speech changes in American appears

mesons, pions, strong interactions, nuclear binding force, quantum of the strong force 1957 Jan p 84-92 [226]	chromosomal anomalies, computer analysis, computer graphics, computer recognition and classification of chromosomes
lambda hyperon, hyperons, hypernuclei 1962 Jan p 50-56 particle detector, semiconductor, solid state physics, particle	1966 Apr p 40–46 [1040] automatic cell sorting, blood cell analysis, computer analysis,
accelerator, semiconductor particle-detector	lymphocytes, automatic analysis of white cells 1970 Nov p 72-82 cluster-seeking algorithms, computer technology, reading machines
1962 Oct p 78–88 [284] spark chamber design 1961 July p 72	1971 Apr p 56–71
eta meson, pion resonance, strong interactions 1962 Feb p 73	eye movement, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537]
pion resonances 1962 June p 79 atomic nucleus, strong interactions 1962 Nov p 70	visual perception 1971 June p 34-43 [537] visual perception, information theory, computer graphics, 'block
high-energy physics, intermediate boson 1964 Mar p 54	portraits', computer enhancement, recognition of faces 1973 Nov p 70-82
omega minus particle discovered 1964 Apr p 60 relation of electromagnetic and weak interactions forces	figure-ground perception, texture discrimination, visual perception,
1973 Nov p 48	perceptual limitations 1975 Apr p 34-43 [563] reading, letters, words, visual cues in recognition of letters and words
see also high-energy physics	1978 Jan p 122–130 [122]
article scattering, electromagnetic force, nuclear forces, proton, neutron, mesons, high-energy physics, fundamental research, what holds the	Pauli, atom, exclusion principle, theoretical physics, antimatter, quantum
nucleus together? 1953 Sept p 58–63	mechanics, structure of atoms and nuclei 1959 July p 74-86 [264] Payloy, conditioned behavior, behavioral psychology, biography and
particle-scattering experiments, atomic nucleus, nuclear physics, high- energy physics, electron scattering, models of the atomic nucleus	appraisal of IP Pavlov 1949 Sept p 44-47
1956 July p 55–68 [217]	conditioned reflex, neurosis, operant conditioning, psychology, thyroidectomy, stress, emotional behavior, neurosis, conditioned
atomic nucleus, science history, Rutherford, biography 1956 Nov p 93-104	reflex is shown to be a neurosis 1954 Jan p 48-57 [418]
high-energy physics, particle accelerator, atomic nucleus, method and technology of high-energy physics 1960 Mar p 98-114	peasants, commerce, market, agricultural system, peasant markets in Haiti 1960 Aug p 112-122 [647]
technology of high-energy physics 1960 Mar p 98~114 particle-storage rings, collective-effect accelerators, electron ring	peat bog, Stone Age hunters, organic relics, Neolithic archeology
accelerator, particle accelerator 1972 Apr p 22–33	1952 May p 20-25 archeology, weapons deposits, organic relics, Danish history
particle tracks, photographic emulsion, cosmic radiation, neutron, proton, electron, characteristic 'signatures' of particles 1956 May p 40-47	1953 Oct p 84–88
spark chamber, particle accelerator, cloud chamber, bubble chamber 1962 Aug p 36-43	pecking order, chicken, social behavior, sexuality and dominance 1956 Feb p 42-46 [471]
fission-track dating 1967 June p 51 particle-wave duality, see wave-particle duality	aggression, group behavior, social psychology, experiments in group behavior 1956 Nov p 54-58 [154]
particles of wear, Beilby layer, ferrograph analysis, friction, lubrication,	communication, territorial behavior, pheromones, rabbits, scent glands,
machine wear, metal fatigue, wear 1974 May p 88–97 particulates, air pollution, smog, 'blue haze', atmospheric inversion,	territorial marking by rabbit 1968 May p 116-126 [1108] animal behavior, courtship display, turkeys, sexual behavior, lek
ozone, peroxides, photochemistry 1955 May p 62-72	behavior, Welder Wildlife Refuge 1971 June p 112-118
climate, air pollution, atmospheric circulation, carbon dioxide 'window', ozone, temperature of Earth, human activity and climatic	peer group, social deprivation, comparative psychology, rhesus monkeys, maternal deprivation, experiments in social deprivation
change 1971 Jan p 32-42 [894]	1962 Nov p 136–146 [473]
cermets, composite materials, dispersion-strengthened composites, fiber-reinforced composites 1973 July p 36-44	peer review, N S F, research funding, university science, science policy, sociology of science 1977 Oct p 34-41 [698]
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron positron annihilation, proton, quantum	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]
electrodynamics 1973 Oct p 104-113	Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of
parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22-29	Macedonia 1966 Dec p 98-105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect
Pascal's theorem, projective geometry, Renaissance paintings, Leonardo,	1958 Nov p 31–37
Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80-86	pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54-57 [632]
Pascal's triangle, mathematics, probability, combinatorial analysis,	penguin, sexual behavior, behavioral adaptation, Antarctica, natural
normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept p 92–108	history 1957 Dec p 44-51 animal migration, animal navigation, Antarctica, Adelie penguin
passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes	navigation system 1966 Oct p 104–113
1961 Sept p 167-180 [96]	penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57
passive trapper, carmivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104-155 [1382]	mutation, drug resistance, bacteriology 1961 Mar p 66-71 bacterial cell, cell wall, bacterial metabolism, polysaccharides,
patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung	glycopeptides, membrane 1969 May p. 92–98
machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76-90	synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of
patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major	mammals, heavy water biology 1960 July p. 106 116
provisions of Atomic Energy Act of 1954 Nov p 31-35	penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78-83
royaltres for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46	staphylococcus aureus 1960 Nov. p. 00
patent-law reform, commerce, invention, technology 1967 June p 19-27	Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115]
changes proposed 1967 Apr p 48 pattern recognition, computer technology, artificial intelligence	Pennsylvanian period, coal, fossil, flora, Mississippian period, Carboniferous period, tropical flora, deposition of coal
1960 Aug p 60-68 Chinese language, computer translation, experiment in machine	1948 July p 46-51
translation 1963 June p 124-135 memory, visual search, visual scanning information processing,	People's Republic of Cluna, agricultural technology, and untrail
reading 1964 June p. 04, 102 (496)	technology, economic development, technology in People's Republic
visual perception, computer graphics, stereoscopic images, texture discrimination, depth perception 1965 Feb p 38-48 [318]	medical care, preventive medicine, primary care, 'barefoot doctors'
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1974 Apr p 19-27

insect evolution, predatory wasps, solitary wasps, species specificity,	Lake di .
predator-prey relationship, behavioral clues to evolution	beta decay, neutrino, muon neutrino, a particle interaction, 'weak'
	10fce. experiment demonstrating existence of many
fleas host-parasite relationship have a 1963 Apr p 144-156	4 1963 Mar p 60-701
fleas, host-parasite relationship, hormone, rabbits, estrus, adaptation,	magnetic monopoles elementoms portrates at the second
the rabbit flea and rabbit hormones 1965 Dec p 44-53 [1027	search for elementary particle of magnetism 1963 Dec p 122-
biological clock, malana, Plasmodium, reproduction, gametocyte.	
mosquitoes 1970 June 5, 122_131 (110)	alternating-gradient synchrotron, 'eightfold way', omega minus
ants, insect behavior, animal communication, ant 'guests',	
comensalism, pheromones 1971 Mar p 86-93 [1213]	National Laboratory experiment 1964 Oct p 34
comensalism, pheromones 1971 Mar p 86–93 [1213]	by Farlance or an Eo. 2 include on the Confidence of the Confidenc
birds, finches, mimicry, sexual behavior, widow birds, animal behavior	accelerator, spark chamber 1966 Nov. p. 107-1161
1974 Oct p 92-98	mesons, pions, proton, quark, high-energy physics, nucleons, Regge
ants, social insect, pheromones, insect behavior, ant slavery	trajectory, high-energy scattering 1967 Dec. p 76
1975 June p. 32–36 [1323]	Van de Graaf generator, electrostatic belt generator, charge-changin
parathy roid hormone, calcium metabolism, phosphate metabolism,	
vitamin D, osteogenesis, parathyroid function	accelerator, negative ion 1970 Aug p 24
	collective-effect accelerators, electron-ring accelerator, particle-store
Pará militari medium medium 1961 Apr p 56-63 [86]	rings 1972 Apr p 22
Paré, military medicine, medicine, science history, surgery, life and work	atomic nucleus, atomic structure, exotic atoms, kaonic atoms, muon
of Ambroise Pare 1956 Jan p 90-96	atoms, pions, quantum mechanics, high-energy physics
parentage, blood typing, forensic medicine 1954 July n 78-82	1972 Nov p 102-
parental care, comparative psychology, emotional development,	
abnormal behavior, maternal deprivation, early experience and	beta decay, bubble chamber experiments, high-energy physics,
emotional development, experiments with rats	hadrons, neutrino beam, positron 1973 Aug p 30
• • • • • • · · · · · · · · · · · · · ·	National Accelerator Laboratory, proton beam, neutrino beam,
1963 June p 138-146 [478]	synchrotron 1974 Feb p 72-
marine birds, phalarope, sexual behavior, animal behavior, sex role,	at Caltech 1952 Sept p
hormone 1969 June p 104-111	200 ft linear 1953 Feb p
animal behavior, innate behavior, learning, feeding behavior, sea gull	at Oak Ridge 1953 May P
chicks 1969 Dec p 98~106 [1165]	
1703 Dec p 70-100 [1103]	
personality, child development, infant behavior, temperament,	breakdown at Columbia 1957 July p
interaction of temperament and environment, nature-nurture	12 5 Bev for Argonne 1958 Feb p
1970 Aug p 102–109 [529]	alternating-gradiant synchrotron at Brookhaven 1959 Feb p
animal behavior, crocodile, Nile crocodile, reptile	efficiency of linear accelerator 1959 July p
1976 Apr p 114-124	24Bev synchroton 1960 Feb p
parity, elementary particles, 'weak' force, symmetry, quantum, particle	USSR state-of-the-art 1960 May p
interaction, right and left-handed particles breakdown of parity	alternating gradient synchrotron 1960 Sept P
	artornating gradient system out on
1957 Apr p 45–53 [231]	incontains of two-neutrino experiments
antimatter, symmetry, elementary particles, 'weak' force, particle	and a limited or out of the control
interaction, recognition of 'fourth force' 1959 Mar p 72-84 [247]	Cartoridge Excellent reconstruct
symmetry, time reversal, CPT mirror, mirror images	antineutrinos and neutrinos 1962 Aug P
1965 Dec p 28-36 [301]	alignment of proton spin axes 1963 Mar p
time reversal, symmetry, charge conservation, lambda decay, CPT	US research and development program 1963 July p
conservation, proton spin, experiments in time reversal	superconducting accelerator 1965 Dec p '
1969 Oct p 88–101	site chosen for U.S. 200 GeV accelerator 1967 1 cb P -
violation of symmetry 1957 Mar p 62	supercooled electron accelerator 1968 June P *
	magnet problem at Fermilah 1972 Jan P *
Parkinson's disease, link to 1918 flu pandemic 1961 Sept p 86	total full n
parthenogenesis, fertilization, sea urchin egg 1950 Dec p 46-49	1071 Touches design energy
fertilization, progesterone, hyaluronidase, zona pellucida	teravori proposar
1951 Mar p 44-47	
in fowl 1956 May p 64	colliding-beam accelerator, new orders of collision energy 1978 Mar p 7
embryonic growth in fowl without fertilization 1961 Feb p 72	1970 Min b .
particle acceleration, cosmic radiation, massive nuclei, high-energy	particle bed, fluidization, petroleum cracking, turbulence, gas stream
physics, Milky Way, magnetic field, supernovae, fundamental	food processing ' 1900 July 19
research, where do cosmic rays come from?	particle charge, physical constants, measurement, velocity of light
1953 Sept p 64-70 [239]	teres many least equator method clandards of measurements
1955 Sept p to the factor halo	Planck's constant. Rydberg constant 1970 Oct p 62-76 (59)
cosmic radiation, cosmic ray showers, supernovae, galactic halo,	particle counters, elementary particles, electron, proton, neutron
synchrotron radiation, abundance, energies, sources of cosmic rays 1969 Feb p 50-63	mesons who ton neutrino particle accelerator, fluctual
	binding force, 'Meson Song' 1948 June p 26 39
particle accelerator, elementary particles, electron, proton, particle	a transport of book an ergy physics how counters work
counters neutron, positron, mesons, photon, neutrino, nuclear	radiation counters, night-energy physics, now counters work
Linding forms (Moson Cong) 1940 Julie D 20-37	particle detector, particle physics semiconductor, solid state physics
high approxy physics intentory of plant world-wide 1946 Oct p 10-17	. II duotor morticio. (intector
-a-matea. Docatean high-arietty fillysics, iccimulate of inter-	particle accelerator, semiconductor particle-detector 1962 Oct p 78-88 [284]
white man as into the Giga (Million) Voll Faller 1991 A Co P and and	1902 Con promisely,
strong-focusing synchrotron, plans for 100-billion-electron-volt	particle interaction, elementary particles, parity, 'weak' force, symmetry,
manhan.	quantum, right and left-handed particles breakdown of panty 1957 Apr p 45-53 [231]
electron-multiplier tube, scintillation counters	1937 Apr p 42-22 1-1
scintillation counter, electron-manipuot to 1953 Nov p 36-41	antimatter, symmetry, elementary particles 'weak' force party, recognition of 'fourth force' 1959 Mar p 72-84 [247]
1954 Mar p 84–90	recognition of fourth force 1939 Mar p 12-17-12-17
microwaves, radar, klyston and physics 1956 Aug p 29-35	muon, electron 'weak' force, high energy physics, properties of massive
research funding, USSR, high-energy physics 1956 Aug p 29-35	negative particle 1961 July P 49 25 12 12
t and the manch on clement animicality, stends of the	colliding beam accelerator, high-energy physics proton proton
isotopes, 'synthetic' elements, experimental astrophysics 1956 Sept. p. 82-91	enteraction CFRN 1973 NOV P
	high energy physics gauge theory, field theory, weak force
high-energy physics, particle-scattering experiments atomic nucleus,	1
high-energy physics, particle-scattering experiments 1960 Mar p 98-114 method and technology of high-energy physics 1960 Mar p 98-114	electromagnetic force gauge theory neutrino interactions weak a
	cond or and contract interactions (274 176 3) 17
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particle detector, particle physics semiconductor, solid state physics particle detector 1962 Oct p. 75-88 [284]	flowing associations of pictors and air in a pacity
particle delector 190 CCC p	100 O t b of 105 [5 a]

mesons, pions, strong interactions, nuclear binding force, quantum of	chromosomal anomalies, computer analysis, computer graphics, computer recognition and classification of chromosomes
the strong force 1957 Jan. p 84–92 [226]	1966 Apr p 40-46 [1040]
lambda hyperon, hyperons, hypernuclei 1962 Jan p 50-56 particle detector, semiconductor, solid state physics, particle	automatic cell sorting, blood cell analysis, computer analysis,
accelerator, semiconductor particle-detector	lymphocytes, automatic analysis of white cells 1970 Nov p 72-82
1962 Oct p 78-88 [284]	cluster-seeking algorithms, computer technology, reading machines
spark chamber design 1961 July p 72	1971 Apr p 56–71
eta meson, pion resonance, strong interactions 1962 Feb p 73	eye movement, scan-path recordings, serial-recognition hypothesis,
pion resonances 1962 June p 79	visual perception 1971 June p 34–43 [537]
atomic nucleus, strong interactions 1962 Nov p 70	visual perception, information theory, computer graphics, 'block
high-energy physics, intermediate boson 1964 Mar p 54	portraits', computer enhancement, recognition of faces 1973 Nov p 70-82
omega minus particle discovered 1964 Apr p 60	figure-ground perception, texture discrimination, visual perception,
relation of electromagnetic and weak interactions forces 1973 Nov. p. 48	perceptual limitations 1975 Apr. p 34–43 [563]
•	reading, letters, words, visual cues in recognition of letters and words
see also high-energy physics article scattering, electromagnetic force, nuclear forces, proton, neutron,	1978 Jan p 122–130 [122]
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nucleus together? 1953 Sept p 58-63	mechanics, structure of atoms and nuclei 1959 July p 74-86 [264]
article-scattering experiments, atomic nucleus, nuclear physics, high-	Payloy, conditioned behavior, behavioral psychology, biography and
energy physics, electron scattering, models of the atomic nucleus	appraisal of I P Paylov 1949 Sept p 44-47
1956 July p 55–68 [217]	conditioned reflex, neurosis, operant conditioning, psychology,
atomic nucleus, science history, Rutherford, biography	thyroidectomy, stress, emotional behavior, neurosis, conditioned
1956 Nov p 93–104	reflex is shown to be a neurosis 1954 Jan p 48–57 [418] peasants, commerce, market, agricultural system, peasant markets in
high-energy physics, particle accelerator, atomic nucleus, method and	Haiti 1960 Aug p 112–122 [647]
technology of high-energy physics 1960 Mar p 98-114	peat bog. Stone Age hunters, organic relics, Neolithic archeology
particle-storage rings, collective-effect accelerators, electron-ring accelerator, particle accelerator 1972 Apr p 22–33	1952 May p 20–25
accelerator, particle accelerator 1972 Apr p 22-33 particle tracks, photographic emulsion, cosmic radiation, neutron, proton,	archeology, weapons deposits, organic relics, Danish history
electron, characteristic 'signatures' of particles 1956 May p 40-47	1953 Oct p 84–88
spark chamber, particle accelerator, cloud chamber, bubble chamber	pecking order, chicken, social behavior, sexuality and dominance
1962 Aug p 36–43	1956 Feb p 42–46 [471]
fission-track dating 1967 June p 51	aggression, group behavior, social psychology, experiments in group
particle-wave duality, see wave-particle duality	behavior 1956 Nov p 54-58 [154] communication, territorial behavior, pheromones, rabbits, scent glands,
particles of wear, Beilby layer, ferrograph analysis, friction, lubrication, machine wear, metal fatigue, wear 1974 May p 88-97	territorial marking by rabbit 1968 May p 116–126 [1108]
machine wear, metal fatigue, wear 1974 May p 88-97 particulates, air pollution, smog, 'blue haze', atmosphene inversion,	animal behavior, courtship display, turkeys, sexual behavior, lek
ozone, peroxides, photochemistry 1955 May p 62–72	behavior, Welder Wildlife Refuge 1971 June p 112-118
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'window', ozone, temperature of Earth, human activity and climatic	maternal deprivation, experiments in social deprivation
change 1971 Jan. p 32-42 [894]	1962 Nov p 136–146 [473]
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fiber-reinforced composites 1973 July p 36-44 parton model, antimatter, high-energy physics, colliding-beam	Peking man, human evolution, Homo erectus, fossil men, Java man,
accelerator, electron-positron annihilation, proton, quantum	Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]
electrodynamics 1973 Oct p 104-113	Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of
parts manufacture, automatic control, computer applications, machine	Macedonia 1966 Dec p 98–105
tool, batch process production methods 1975 Feb p 22–29	Peltier effect, thermoelectricity, semiconductor, Seebeck effect
Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as	1958 Nov p 31-37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back
systematized by Poncelet and Klein 1955 Jan p 80–86	pain, 'scars of human evolution' 1951 Dec p 54-57 [632]
Pascal's triangle, mathematics, probability, combinatorial analysis,	penguin, sexual behavior, behavioral adaptation, Antarctica, natural
normal curve, Brownian motion, Markov chain, statistics,	history 1957 Dec p 44-51
probability theory 1964 Sept. p 92–108	animal migration, animal navigation, Antarctica, Adelie penguin
passive transport, active transport, pinocytosis, phagocytosis, cytology,	navigation system 1966 Oct p 104–113
osmosis, cell membrane, fertilization, functions of cell membranes	penicillun, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57
1961 Sept p 167–180 [96] passive trapper, carmy orous plants, active trapper, digestive enzymes,	mfectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71
natural history 1978 Feb p 104-155 [1382]	bacterial cell, cell wall, bacterial metabolism, polysacchandes,
patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung	bacterias cen, cen wan, bacterias inclabonsin, borysaccijannes
machine Follot totalogy tachardom and tacharana of once house	
machine, Fallot tetralogy, technology and technique of open-heart	glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63
Surgery 1960 Feb p 76–90	glycopeptides, membrane 1969 May p 92-98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of
surgery 1960 Feb p 76-90 patent law, Atomic Energy Act, power, licensing, international	glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deutenum, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116
patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major	glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed
patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 Nov p 31-35 royalties for U-235 production process 1958 Dec p 54	glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83
patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 Nov p 31-35 royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46	glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deutenum, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight
patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31~35 royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology 1967 June p 19–27	glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115]
surgery 1960 Feb p 76-90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31-35 royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology changes proposed 1967 June p 19-27 1967 Apr p 48	glycopeptides, membrane synthesis of 'natural' penicillin synthesis of 'natural' penicillin penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period.
patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov. p. 31–35 royalties for U-235 production process 1958 Dec. p. 54 rapid-growth technology 1973 July p. 46 patent-law reform, commerce, invention, technology changes proposed 1967 Apr. p. 48 pattern recognition, computer technology, artificial intelligence 1960 Aug. p. 60–68	glycopeptides, membrane synthesis of 'natural' penicillin penicillin mold, algae, deutenium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carboniferous period, tropical flora, deposition of coal
patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov. p. 31–35 royalties for U-235 production process 1958 Dec. p. 54 rapid-growth technology 1973 July p. 46 patent-law reform, commerce, invention, technology 1967 June p. 19–27 changes proposed pattern recognition, computer technology, artificial intelligence 1960 Aug. p. 60–68 Chinese language, computer translation, experiment in machine	glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli. mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carboniferous penod, tropical flora, deposition of coal 1948 July p 46–51
patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 Nov p 31-35 royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology changes proposed 1967 June p 19-27 changes proposed 1967 Apr p 48 pattern recognition, computer technology, artificial intelligence 1960 Aug p 60-68 Chinese language, computer translation, experiment in machine translation 1963 June p 124-135	glycopeptides, membrane synthesis of 'natural' penicillin penicillin mold, algae, deutenium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatium, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carboniferous period, tropical flora, deposition of coal penny-pitching, computer contest 1948 July p 46–51 People's Republic of China, agricultural technology, industrial
patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology changes proposed 1967 Apr p 48 pattern recognition, computer technology, artificial intelligence 1960 Aug p 60–68 Chinese language, computer translation, experiment in machine translation 1963 June p 124–135 memory, visual search, visual scanning, information processing,	glycopeptides, membrane synthesis of 'natural' penicillin penicillin mold, algae, deutenium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatium, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carboniferous period, tropical flora, deposition of coal 1948 July p 46–51 penny-pitching, computer contest People's Republic of China, agricultural technology, industrial technology, economic development, technology in People's Republic
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anthropology, central-place theory, market networks, Guatemala, re	ural atomic structure crystal structure deal and a deal
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1961 Feb p	66 periodic table, 'synthetic' elements, transporter all the property of the p
rate of economic growth 1972 Sept p	elements, stable isotopes, tsotopes, first of a senes of articles
peptide bond, protein structure, protein synthesis, amino-acid sequence	
hydrogen bonds, tertiary structure, nature, diversity and function proteins	011DIOMEINIIMI X5(actating) and \$7(francium) and the first first
proteins, zymogen, trypsin, proteolytic enzymes, hydrolysis, enzyme	s, 96[curium] and 97[berkelium]) 1950 Apr p 38-47 [242]
structure and function of protein-digesting enzymes	alpha decay, transuranium elements, isotopes, nuclear stability, beta
1964 Dec p 68 insulin, automatic synthesis, protein synthesis, amino acids, 'solid	decay, radioactive decay, 'synthetic' elements, the 'superheav'
phase' method of synthesis, polystyrene beads	elements beyond 103 1969 Apr p 56-67
1968 Mar p 56-74 [3	permanent magnets, geomagnetism, electromagnetism, Blackett
peptide chain, proteins, amino acids, alpha helix, enzyme catalysis, lock	
and-key theory, how is a protein made? 1953 Sept p 100-	
peptides, kintns, kallidin, venom, inflammation, bradykinin, elohilin	4.1
local hormones, production and distribution	Alnico 1970 Dec p 92-100 peroxides, air pollution, smog, 'blue haze', atmospheric inversion
1962 Aug n 111-11811	321 particulates ozona phatochemistry 1065 Mai p 62-77
perception, psychology, psychological testing, science, psychology 1900	perpetual motion, thermodynamics, Maxwell's demon, second law of
1950 Sept p 79-	84 thermodynamics 1967 Nov n 103-110 [317]
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central nervous system, medulla, reticular formation, brain, motor	1068 Ian n 114-122
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1957 May p 54-60 [6	Persia, ancient trade, archeology, writing, Elamite culture,
pain, psychology, neuropsychology, cultural influence on pain	Mesopotamian culture, Sumer, Iran, Tepe Yahya
perception 1961 Feb p 41-49 [45	
visual perception, form perception, learning, innate or learned form perception 1961 May p. 66-72 [45]	Persian Gulf fields, Middle East oil, petroleum resources, energy
perception 1961 May p 66-72 [45 brain hemispheres, cerebral dominance, split-brain experiments, corp.	9] economics, economic development, Iran, Iraq, Saudi Arabia us 1948 Sept p 9-15
callosum, intelligence, language, localization of brain function	persistent insecticides, DDT, insecticide resistance 1952 Oct p 21-25
1967 Aug p 24–29 (50	
vision, retinal image-processing, visual perception, retina, visual-cell	minicomputers FLEX LOGO SMALLTALK
types 1969 May p 104-114 (114	3] 1977 Sept p 230-244 (384)
afterimages, phosphenes, vision, prosthesis for blind, self-illumination	personal-transit systems, cities, urban transport, computer modeling
of visual centers 1970 Feb p 82-8	37 systems analysis, mass transit 1969 July p 19-27
image processing, memory, linguistic material, visual memory,	personality, visual perception, 'Ames room', aniseikonic lenses, anxiely
remembering what is seen 1970 May p 104-112 [520	Hont' phenomenon, emotional relationships condition perception 1959 Apr p 56-60
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1974 Dec p 23-31 [562	Interaction of temperament and environment, nature-nurities
auditory perception, brain hemispheres, cerebral dominance, musical	1970 Aug p 102-103 (3-7)
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infant shape perception 1966 May p 56	by aerial photography 1951 Aug P
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perceptual development, child development, eye-hand coordination, infant perceptions, object concept 1971 Oct p 30-38 [539]	
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hallucination, perceptual-release theory 1977 Oct p 132-140 [579]	development 1957 Jan p 37-43
perceptual isolation, electroencephalography, hallucination, boredom,	metallurgy. New World archeology, New World archeology, Old
neuropsychology, sensory deprivation, effect of exposure to	Copper culture, copper, gold, lost-wax casting, metalwork, pre Columbian, New World, 4 000 B C 1966 Apr p 72-81
monotonous environment 1957 Jan p 52-56 [430]	Columbian, New World, 4 000 B C 1966 Apr p 12-01 cave dwellers, stone tools, human evolution Ayacucho site
perceptual learning, psychology, learning, spatial perception, innate behavior innate vs acquired space perception 1956 July p 71-80	1971 Apr p 36-46
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'photographic' memory 1969 Apr p 36-44 [522]	1954 Mar p Co-7.
percentual transparency, color fusion, color scission, physical	climate Inca envilization. New World archeology, environmental influences on early Peruvian cultures. 1965 Oct. p. 68-76
transparency, optical illusion, transparency, visual perception	influences on early Peruvian cultures 1965 Oct p (8-7)
1974 Apr p 90-98 [339]	anchovy crisis El Niño, fishing upwelling Peruvian anchovy 1973 June p 22-29 [1273]
percolation, brine, Red Sea hot brines, salinity, ocean floor, sea-floor	Parmian anchors, anchors crisis El Niño fishing unwelling Peru
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perfect square, perfect square of order 21 1978 June p 86 perfumes, essential oils, oleoresins steam distillation, vacuum of stillation.	pest control, rabbit plague, myxomatosis. Australia 1954 Jeh. p. 30-35
1933 Aug D 70-7-1	lamproy, jawless fish, Great Lakes trout whitehin 1955 Apr V
nerse conduction Schwann cell	agricultural pest fire ants dieldrin insecticide 1958 Mar p. 16-41 hological pest control screw worm fly. A-ray sterilization called
	eradication of the screw worm fly 1979 Cal. P. 27. 1
axoplasm, memorate potential, concentration gradients tube, physiology of neural transmission, concentration gradients 1966 Mar p 74-82 [1038]	see also biological pest control insecticide aericulturil pest ar l'ile
	like
perihelion shift, artificial satellite, relativity theory, Mercury, stellar shift, electromagnetic frequency shift, clock paradox general relativity, electromagnetic frequency shift, clock paradox general relativity, electromagnetic frequency shift, clock paradox general relativity, electromagnetic frequency shift, clock paradox general relativity.	
	posticide, ser insecticide
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electromagnetic frequency shift, clock paradic 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing Einstein's general theory of relativists 1959 Max p 149-160 testing	Petra, Greek enviloation Nabatarans Near Fast archect ps Hellen zation of Arabs 1963 Octop 94-12

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petrified wood, Eocene epoch, Yellowstone National Park, erosion,	barbiturates, hypnotics, tranquilizers, sedatives, anesthesia
volcanic sediments, petrified forests of Yellowstone	1958 Jan p 60–64
1964 Apr p 106–114	Phocomelia, thalidomide, technology assessment, U S F D.A in thalidomide catastrophe 1962 Aug p 29–35 [1100]
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Neolithic periods 1969 Aug p 74-82 [649] petroleum, oil drilling, industrial technology, advances in drilling	disease, metal poisoning, heavy metal poisoning, bone cancer,
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water injection, gas injection, secondary recovery 1965 July p 34-42	exploitation of chelates 1966 May p 40-50
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energy economics, tar sands, oil shales, shale retorts, potential liquid-	1969 Dec p 17-25 [524] chemotherapy, drug effects, liver function, vaccine, hormone,
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petroleum energy economy 1978 Mar p 42-49 [930]	botanical collections, food plants, herbanium resources
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asphalt, for beneficiation of sandy soils 1967 Jan p 60	reserpine, synthesis 1956 July p 50
salt domes in deep-sea floor 1969 July p 54	proliferation of drugs 1961 July p 71 pharynx, music, voice, singing voice, larynx, acoustics of singing voice
strike in Japanese offshore waters 1969 Oct p 48 petroleum consumption, surpasses coal 1953 Sept p 76	1977 Mar p 82–91
petroleum cracking, fluidization, particle bed, turbulence, gas stream,	phase memory, crystal structure, photon echoes, laser, nuclear-spin echo
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catalysis, chemical reaction, industrial processes 1971 Dec p 46-58	phase transitions, explosions, shock waves, materials technology, solids
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1967 June p 93–100	superfluidity, helium 3, liquid phase, gas phase, solid state physics, quantum effects, quantum fluids 1976 Dec p 56-71
petroleum fermentation, proteins, petroleum, food production 1965 Oct p 13-17	phase velocity, light velocity, radiowave, plasma, free-electron density,
petroleum refinery, automatic control, continuous processing, fluid	'things that go faster than light' 1960 July p 142–152
dynamics, control panel, automatic chemical plant	Ph.D.: Doctor of Philosophy
1952 Sept p 82–96	Ph.D.'s, origin and employment 1966 Mar p 57 in science and engineering, 130 per 1,000,000 U S population
petroleum reserves, fossil fuel, coal reserves, energy consumption liquid- fuel consumption, shale, tar sands, coal liquefaction, the fuel	1977 Sept p 96
problem 1949 Dec p 32–39	phenotype, genotype, gene expression, mutation 1949 Oct p 46-49
petroleum resin, mulch, inexpensive mulch 1963 Apr p 84	Lysenkoism Lamarck, acquired characteristics, genotype, evolution,
petroleum resources, Middle East oil, energy economics, Persian Gulf	mutation, ostrich calluses, speciation, religion, orthodoxy,
fields, economic development, Iran, Iraq, Saudi Arabia 1948 Sept p 9-15	Darwinism, experiments in acquired characteristics 1953 Dec p 92-99
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1951 Dec p 26-29 [423]	psychology, reproduction, feedback, trophallaxis, natural history,
peyote, Native American Church 1951 Oct p 38	philosophy of science, anthropomorphism 1948 June p 16-23
pH: potential of hydrogen	insect physiology, sexual behavior, queen substance, muskone, social
pH, galvanic cell, glass electrode, hydrogen ions, acidity 1951 Jan p 40-43	behavior, ants, Gypsy moths, mice 1963 May p 100–114 [157] insecticide, insect attractant, synthetic attractants, chemotaxis, odor-
phage X174, DNA, gene mutation, single-stranded DNA	basted lure, third-generation insecticides 1964 Aug p 20–27 [189]
1962 July p 109–116 [128]	communication, territorial behavior, rabbits, scent glands, pecking
phagocytosis, leukocyte, infection, antibodies, 'the first line of defense'	order, territorial marking by rabbit 1968 May p 116-126 [1108]
active transport, passive transport, pinocytosis, cytology, osmosis, cell	ants, insect behavior, animal communication, ant 'guests', comensalism, parasitism 1971 Mar p 86–93 [1213]
membrane, fertilization, functions of cell membranes	comensalism, parasitism 1971 Mar p 86–93 [1213] chemotaxis, animal communication, bullheads, catfish
1961 Sept p 167–180 [96]	1971 May p 98-108 [1222]
amoebae, ceil motility, cytoplasmic streaming, sol-gel reaction, front	insect behavior, bee dances, sex attractants, courtship display
contraction theory of amoeboid motion 1962 Feb p 112–122 [182] autolysis, lysosomes, enzymes, pinocytosis, metamorphosis, cellular	1972 Sept p 52–60 [1280]
digestive organ, 'suicide bag' 1963 May p 64–72 [156]	gypsy moth, biological pest control, olfactory receptors, sex attractants, silk moth, chemotaxis, communication 1974 July p 28-35 [1299]
antigens, immune response, antibodies, hypersensitivity, inflammatory	ants, social insect, parasitism, insect behavior, ant slavery
response, leukocyte, allergy, thymus gland, lymphatic system,	1975 June p. 32–36 [1323]
cellular immunity 1964 Feb p 58-64 autolysis, lysosomes, enzymes, lysis, chromosome breakage, lysosome	ants, insect behavior, social insect, weaver ants
implication in disease processes 1967 Nov p 62–72 [1085]	philanthropic foundations, Congressional investigation 1954 Mar p 44
gene expression, repressor molecules, operator-repressor system, lac	hearings fizzle 1954 Mar p 44
repressor, lambda repressor, isolation of two gene repressors, how	verdict by pre-judgement 1955 Feb p 54
they work 1970 June p 36-44 [1179] 'piggyback' phagocytosis phenomenon 1962 June p 86	intimidated, anyway 1955 Mar p 50
Phalangida, harvestman, daddy longlegs, Arachnida, animal behavior,	Philips air engine, heat engines, external combustion engines, Stirling engine, hot-air engine
natural history 1962 Oct p 119–128 [137]	engine, not-air engine 1948 July p 52-55 philosopher's stone, alchemy, transmutation, science history
phalarope, manne birds, sexual behavior, animal behavior, parental care, sex role, hormone	1957 Oct p. 72 76
sex role, hormone 1969 June p 104-111 pharaohs, Nile valley, Egyptian civilization, Sakkara, burial site, tombs of	philosophi, Cartesian geometry, mathematics, analytic geometry,
the first pharaohs 1957 July p. 106–116	Descartes, Rene Descartes, biography 1959 Oct p 160–173 Boyle's law, chemical experimentation, pneumatics, science history
pharmaceutical industry, prostheses, F.D.A., medical care, medical	1067 Aug = 06 102
economics drug prescription, drug research, medical laboratory services 1973 Sept. p. 161–166	mathematics, Leibnitz, calculus, symbolic logic, calculating machine
pharmacology, isoniazid, isotopes tuberculosis strentom cin para-	Leibilitz, biograph) 1069 May = 04 100
aminosalicylic acid, tracing action of TB drugs	grammar, truth logic, sentence, metalogic, mathematical proof, antimony of the liar, proof and truth 1969 June p. 63-77
anesthesia pain, cocaine, procaine, surgery, medical research,	philosophy of command and large numbers gambler's
neuropharmacology, psychiatry, research in pain suppression	10100 O- 44 4-
1957 Jan p 70–82	topological limits of the topological limits
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Godel's proof, mathematics, logic, paradox, undecidable problems in	photobiology, photosynthesis, chlorophyll, carotene, retinene, vision,
axioms of arithmetic 1956 June p 71–86	phototropism, bioluminescence, sunlight, life and light
astronomy, galactic clusters, universe, planetary motion, solar system, cosmology, introduction to single-topic issue on the universe	visible light revives uv-killed bacteria 1959 Oct p 92-103 1949 May p 27
1956 Sept p 72–81	photocell, light amplification, photomultiplier, vanable stars, stellar
cosmology, universe evolution, science history, a skeptical view of	temperature, interstellar matter 1952 Mar p %-59
cosmology 1956 Sept p 224-236	photochemistry, photography, emulsion, silver halide, photographic
gravity, inertia, Galilean relativity, Einstein, frames of reference,	development 1952 Nov p 30-33 air pollution, smog, 'blue haze', atmosphene inversion, particulates
relativity, identity of inertia and gravity 1957 Feb p 99-109 mathematics, Bourbaki, axiomatics, science history, labors of the	ozone, peroxides 1955 May p 62-72
mathematical collective self-styled Bourbaki 1957 May p 88–99	photolysis, chemical reaction, reaction kinetics, free radicals
uncertainty principle, wave-particle duality 1958 Jan p 51-57 [212]	spectroscopy color centers, high speed chemistry
creativity, scientific revolution, Renaissance, Leonardo, introduction to	1960 May p 134-145
single-topic issue on innovation in science 1958 Sept p 58-65	afterimages, color vision, sensory discrimination, visual pigments photochemistry of color perception 1963 Oct p 84-93 [1089]
biology, evolution, natural selection, creativity, innovation in biology 1958 Sept p 100-113 [48]	usion reting photographic emulsion vidicon, television camera light
chance, probability, odds, calculus of chances, causation, logician's	image detection electronic camera 1900 sept P 110 A
point-of-view 1965 Oct p 44–54	light-matter interaction, flash photolysis, ultraviolet light, photolysis
confirmation theory, hypothesis-testing, logic, inductive proof,	triplet state, photoreduction, photooxidation dye 1968 Sept p 158-170
probability 1973 May p 75–83 Snow reaffirms 'two-culture' thesis 1963 Dec p 67	the state of the same alactron transport chlorophyll
phloem, xylem, plants, radioautography, sap circulation, transport of	mechanism of photosynthesis 1909 Dec p 30-14 (111)
nutrients in plant tissue 1959 Feb p 44-49 [53]	airglow, atmospheric ionization, spectroscopy, atmospheric light 1972 Jan p 78-85
aphuds, sap circulation, xylem, trees, use of aphids to measure forces in	17/2 31 - 50
san flow 1963 Mar p 132–142 [154]	photochromism, glass darkens on exposure to be proceeding fly ash
phlogiston, oxygen, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68-73	electrostatics, xerography, electrostatic precipitation and separation
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Antoine Lavoisier 1956 May p 84–94	photoelectric effect, relativity, Einstein, work of Albert Einstein appraised
electrochemistry, electrolysis, Davy lamp, science history, Humphry	at 10
Davy, hiography 1960 June p 100–116	radicals, lethal effects of radiation 1951 Dec p 22-25
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FDA in thalidomide catastrophe 1962 Aug p 29-33 [1100]	solar battery, solid state physics, semiconductor, energy that 1955 Dec p 102-110
Phoenician script, Hittites, Karatepe citadel 1949 Aug p 22-23 phonetics, attention mechanism, speech perception, hearing, cochlea,	spectroscopy, materials technology, color, laser, transparency, opiical
mauroncychology hearing two messages at a time	properties of materials
1962 Apr p 143–131 [407]	alactron interaction of their with that the
auditory illusions, hearing, perception, speech perception, illusions,	
psychology, illusions as clues to organization of perceptual 1970 Dec p 30–33 [531]	Peru, New World archeology, pre-mea effect the 1951 Aug p 18-23
verbal communication, communication, acoustic formants,	photography
markedness/unmarkedness dyad, morphemes, syntax, context	t holida
concitivity invariant/variable dvad 1972 Sept. p. 72-00	photographic development, photography, emulsion, silver halide 1952 Nov. p. 30 11
phonology, language, Canary Islands, nonverbal communication, whistling, the whistled language of La Gomera	photochemistry
1931 Abi b 111-110	photographic emulsion, particle tracks, cosmic radiation includes photographic electron, characteristic 'signatures' of particles 1956 Max p. 40-47 electron, characteristic 'signatures' of particles 1956 Max p. 40-47 electron and control television camera, photochemistry, light, image
phonon, sound energy, heat conduction, cryogenics, thermoelectricity,	vision, felling, vidicon, television
machanics of near conduction 1702 2700 P	detection, electronic camera, ontics 1976 Aug P 12 63
heat conduction, thermal waves, materials technology, thermal conductivity, thermal properties of materials 1967 Sept p 180~188	photographic lenses, glass, tells about a granting digital
	photographic typesetting, electronic typesetting photographic typesetti
heat, diffusion, solid state physics, thermal waves in solid helium cryogenics, wave propagation, helium, thermal waves in solid helium 1970 May p 92–101	applications applications Tiras telemetry.
phosphate metabolism, calcium metabolism, parathyroid hormone,	applications photographic weather maps, weather satellites Tiros telemetry, atmospheric circulation, lical budget of Earth air masses atmospheric circulation, lical budget of Earth air masses atmospheric circulation, lical budget of Earth air masses
vitamin D, osteogenesis, parathyroid function	udeocametas, Wealfier Infections
	photography, emulsion, silver name, photographic tosa Nov p 30
phosphatidic acid cycle, cell membrane, phospholipids, nerve cells, cell secretion, membrane transport potential 1965 Oct p 78-86 [1022]	photochemistry 1053 Mar P 7"
secretion, membratic transport percentage	by amplified light 1959 Mir p (2) color film process 1972 July p (3)
phosphenes, afterimages, vision, perception, prostricts and Each of 82-87	Polaroid one-step system
illumination of visual centers	see also high speed photographs, integrated circuits large scale integrated
illumination of visual centers phospholipids, cell membrane, phosphatidic acid cycle, nerve cells, cell phospholipids, cell membrane phosphatidic acid cycle, nerve cells, cell secretion, membrane transport potential 1965 Oct p 78-86 [1022] secretion, membrane transport potential permeability, membrane	erreuis manufactore to the grant public land of
secretion, membrane transport potential permeability, membrane cell membrane, membrane lipids, membrane permeability, membrane lipids, membrane permeability, membrane cell membrane responsibility (1972 Feb p 30-38 [1241]	the state of the s
proteins active transport	radicals spectro-copy, color centers high speed chemistry
phosphors, absorption line, energy emission, energy engaged in 62-66 [237]	tube of the patricial terms of the patricial to
phosphorus, berylliosis, occupational health, fluorescent light ehelation 1958 Aug. p. 27-33	light imples state planachemistra flight ph. L. is ultrus to light triples state planachem processing a discount of the property of the last part of the processing and the processing the processing the processing the processing the processing triples and the processing triples are processed to the processing triples and the processing triples are processed to the processing triples and the processing triples are processed to the processing triples and the processing triples are processed to the processing triples and the processing triples are processed to the processing triples and the processing triples are processed to the processing triples are processed to the processing triples and the processing triples are processed to the processing triples are processed triples and the processing triples are processed triples and the processing triples are processed triples and the processed triples are processed triples and the processed triples are processed triples and triples are processed triples are processed triples and triples are processed triples are proce
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photic zone, sonar, echo-sounding ocean floor physiking deep-sea 1972 July p 44 50	
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molecular weight determination, polymers, light scattering, viscometer,	ATP, chlorophyll, chloroplast, primary capture of light energy in
how giant molecules are measured 1957 Nov p 90-97	photosynthesis 1960 Nov p 104–118
hotometry, light scattering, molecular size, aerosol, hydrosol, Tyndall	ATP, chloroplast, mitochondrion, cell metabolism, glucogenesis, citricacid cycle, glycolysis, oxidative phosphorylation, cytology, cellular
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force, 'Meson Song' 1948 June p 26–39	role of chlorophyll in photosynthesis, 1965 July p 74-83 [1016]
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jumps, technique and uses of optical pumping 1960 Oct p 12-80	crystals, conjugated aromatic hydrocarbons 1967 Jan p 86-97
crystallography, laser, light refraction, nonlinear optics, light	vision, photoperiodicity, visual pigments, phytochrome, chlorophyll,
interactions, ultraviolet radiation 1964 Apr p 38-49	retina cells, plant growth, light and living matter 1968 Sept p 174-186
photoelectric effect, color, reflection, refraction, light, resonance	chloroplast, photochemistry, electron transport, chlorophyll,
absorption, electron, interaction of light with matter 1968 Sept p 60-71	mechanism of photosynthesis 1969 Dec p 58-70 [1163]
electromagnetic radiation, Coulomb's law, quantum mechanics, mass	biosphere, Earth, evolution, environment, atmosphere-hydrosphere
of photon 1976 May p 86-96	cycles, introduction to single-topic issue on biosphere
neutron, weak as well as strong interaction 1965 Feb p 51	1970 Sept p 44-53 [1188]
photon echoes, crystal structure, phase memory, laser, nuclear-spin echo	solar radiation, biosphere, agricultural ecosystem, chimax ecosystem,
1968 Apr p 32-40	energy cycle, ecosystem, food chain, respiration, biosphere energy cycle 1970 Sept p 64-74 [1190]
photon emission, diffraction, light, wave-particle duality, optics,	water cycle, transpiration, evaporation, runoff, agricultural system,
interference, electromagnetic waves, introduction to single-topic issue on light 1968 Sept. p. 50-59	ocean, precipitation, biosphere 1970 Sept p 98-108 [1191]
photooxidation, light-matter interaction, photochemistry, flash	chloroplast, oxygen cycle biosphere, aerobic metabolism, ozone,
photolysis, ultraviolet light, photolysis, triplet state, photoreduction,	oxidation-reduction reactions, geological record, oxygen-carbon
dve 1968 Sept p 158–170	balance 1970 Sept p 110-123 [1192]
photoperiodicity, plant hormones, germination, flowering, phototropism	calcium carbonate, carbon cycle, sedimentary rock, fossil fuel
1949 May p 40-43	combustion, biosphere, atmosphere, carbon dioxide
flowering, plant hormones, horticulture, control of flowering	1970 Sept p 125-132 [1193] biosphere, energy cycle, respiration, power, radiation energy, solar
1952 May p 49-56 [113] climate, plant growth, greenhouse, agronomy, day-night temperature,	radiation, terrestrial radiation 1971 Sept p 88–100 [664]
'phytotron', environment simulator 1957 June p 82-94	chlorophyll, chloroplast, electron transfer, light absorption
flowering, plant circulation, pigment, hormone, photoperiodicity in	1974 Dec p 68-82 [1310]
regulation of plant physiology 1958 Apr p 108-117 [112]	bacteria, cell membrane, halobacteria, rhodopsin, salt-loving bacteria
entomology, insect diapause, Lepidoptera, hibernation governed by	1976 June p 38-46 [1340]
photoperiodicity 1960 Feb p 108–118	agricultural resources, gene manipulation, irrigation, food and
plant growth, phytochrome, germination, pigments, pigment, flowering, photoreceptive enzyme in plants 1960 Dec p 56-63	agriculture 1976 Sept p 164–178 in vitro 1951 Sept p 52
vision, photosynthesis, visual pigments, phytochrome, chlorophyll,	hight reaction 1953 Feb p 37
retina cells, plant growth, light and living matter	role of ATP 1960 Aug p 72
1968 Sept p 174-186	role of ferredoxin 1962 Oct p 60
biological clock, circadian rhythm, house sparrow, pineal organ,	theory of quantasone operation 1962 Dec p 71
nonvisual light receptors 1972 Mar p 22-29 [1243] biological clock, circadian rhythm, diapause, dormancy, insect	four-carbon pathway, C4 effeciency 1972 Feb p 42
behavior, insect metabolism 1976 Feb p 114-121 [1335]	phototropism, plant hormones, germination, flowering photoperiodicity 1949 May p 40-43
in commencal greenhouses 1950 July p 26	purple bacteria, photosynthesis, sulfur bacteria 1951 Nov p 68-72
in animal life 1952 Nov p 50	plant movement, nastic movement, turgor movement, geotropism
photophoresis, dust cloud hypothesis, binary stars, gravitational collapse,	touch orientation 1955 Feb p 100–106
element abundance angular momentum, origin of the Earth	photosynthesis, chlorophyll, carotene, retinene, vision, photobiology,
lght, radiation pressure, sound-wave pressure, analogy and distinction,	bioluminescence, sunlight, life and light 1959 Oct p 92-108
light- and sound-wave pressure 1957 June p 99–108	photovoltaic conversion, solar energy, light-to-heat conversion, photosynthesis, limitations and prospects of solar power
photoreactivation, ultraviolet radiation, light, visible light reactivates	1950 Aug p 16-21
organisms killed by ultraviolet 1951 May p 22-25	electric power generation, semiconductor technology, silicon-crystal
photoreduction, light-matter interaction photochemistry, flash	structure, solar cells 1976 Oct p. 34_43
photolysis, ultraviolet light, photolysis, triplet state, photooxidation,	Phrygian civilization, archeological excavation, Gordion, Alexander, 700
dye 1968 Sept p 158-170 photosphere, magnetic field solar magnetism. Sun cycle, chromosphere,	B C, preclassical Greek link with East 1959 July p 100-109
solar atmosphere, 11-year solar cycle explained 1966 Nov p 54-62	physical anthropology, human evolution, effect of diet on hereditary features
chromosphere, corona, eclipse phenomena, solar corona, Sun	physical chemistry, molecular biology, interdisciplinary collaboration,
1973 Oct p 68-79	antigen-antibody reaction, collaboration of G Beadle and L Pauling
photosynthesis, chlorophyll, carbon dioxide, water, tracer experiments	1949 May n 16-21
1948 Aug. p 24-35 solar energy, light-to-heat conversion, photovoltaic conversion,	minimum energy, chemical reaction 1966 May p. 61
hmitations and prospects of solar power 1950 Aug p 16-21	physical constants, measurement, velocity of light, electron mass, particle
purple bacteria, phototropism sulfur bacteria 1951 Nov p 68-72	charge, least-squares method, standards of measurement, Planch's constant, Rydberg constant 1970 Oct. p. 62-78 13371
atmosphere, escape velocity, volcanoes, water of crystallization.	physical incapacitation, medical care, medicine, morbidity, mortality
mtrogen, oxygen, origin and evolution of Earth's atmosphere	rates, nospital care, ambulators care triage health incurance
chloroplast, grana, Hill reaction 1953 Aug p 82~86 [824]	introduction to single-topic issue on medical care
origins of life. Miller-Urey experiment, high-energy radiation	1072 8 22 22
neterotrophs, fermentation, autotrophs 1954 Aug p. 44–53 (47)	physics, physics, mathematical model, creativity, innovation in
carotenoids, chloroplast, chlorophyll biology of pigments	physical sciences, 'social physics', social sciences, statistics, parallel
chlorophyll carotene, retinene vision, photobiology, phototropism,	Social statistics and physical part
bioluminescence, sunlight, life and light 1959 Oct p 92–108	mathematics group theory, 'eightfold way', field theory, S-matrix
2 7 1- 1- 100 CCL b 35-109	theory, mathematics in physics 1964 Sept p 128-146
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physical standards, all atomic 1950 Oct. p. 26 physical transparency, color fusion, color scission, perceptual hicroglyplis, writing, ideographs, Mesopotamia, origin of writing in transparency, optical illusion, transparency, visual perception clay tokens 1978 June p. 50-59 [708] picture elements, color television, line structure, field-scanning rate, 1974 Apr. p. 90-98 [559] physics, immony, string instruments, wind instruments, piano, voice, technology assessment, competing color television systems weighed musical scale, acousties, agreeable melodies and physical laws 1950 Dec. p. 13-17 pleturephone test, televised telephoning 1964 July p. 48 1948 July p. 32-41 pletures as objects, visual perception, optical illusion, size constancy, 'How Nice To Be a Physicist', songs by Arthur Roberts distortion, illusions arise from normally useful mechanisms 1948 Sept. p. 50-51 crystal structure, polygons, polyhedra, axis of rotation, philosophy of 1968 Nov. p. 66-76 [517] pldgin, linguisties. Creole, gullah, eolonialism, grammar, evolution and science, topological limits of physics 1953 Jan. p. 50-56 claboration of colonial languages polities, cosmology, Laplace, life and work of Pierre Simon de Laplace 1959 Feb. p. 124-134 piezoelectricity, quartz, crystal structure, ultrasonie transducer, nature 1954 June p. 76-81 and uses of piezoelectricity 1949 Dec. p. 46-51 humor, Innguage, jocular physics, broken English, tribute to Niels Bohr bone, ostcogenesis, collagen, calcium metabolism, bone adaptation to 1956 Mar. p. 93-102 mechanical stress 1965 Oct. p. 18-25 [1021] physical models, mathematical model, ereativity, innovation in physics plezometrie surface, ground water, artesian well, water table, water cycle, 1958 Sept. p. 74-82 resource management, runoff, ground water in water-resource see also; high-energy physics, particle physics, quantum mechanics and management 1950 Nov. p. 14-19 [818] the like pig, laboratory animals, comparative physiology, small pig as physics curriculum, high school, curriculum reform, science teaching, experimental animal, resemblance to man Physical Science Study Committee, university sponsored curriculum 1966 June p. 94-100 [1045] reform 1958 Apr. p. 56-64 [229] pigment, flowering, photoperiodicity, plant circulation, hormone, physics in U.S.S.R., same interests 1955 May p. 51 photoperiodicity in regulation of plant physiology physics of brasses, musical instruments, horn flare, trumpet bell, trumpet 1958 Apr. p. 108-117 [112] 1973 July p. 24-35 plant growth, phytochrome, photoperiodicity, germination, pigments, physiological adaptation, mouse, water retention, behavioral adaptation, flowering, photoreceptive enzyme in plants 1960 Dec. p. 56-63 Mus musculus, commensal of man 1969 Oct. p. 103-110 [1159] pigment synthesis, carotenoids, flower pigments, flavonoids, physiological age, measured by nitrogen turnover 1949 Dec. p. 29 anthocyanins, biochemistry and genetics of flower pigments physiological psychology, diabetes insipidus, thirst, salt excretion, 1964 June p. 84-92 [186] electrolyte balance, thermoregulation, urine, kidney, osmoreceptor pigmentation, behavioral adaptation, 'cold-blooded' animals, theory of thirst, Cannon 'dry mouth' theory thermoregulation, lizard, reptile, behavioral thermoregulation 1956 Jan. p. 70-76 acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional 1959 Apr. p. 105-120 illness, neurotransmitters, central nervous system, chemical hormone, skin color, melanín, melanocytes, melatonin 1961 July p. 98-108 mediation of nerve impulses 1957 Fcb. p. 86-94 hypnosis, sleep, suggestibility, experiments in hypnosis pigments, solar energy, light absorption, energy conversion, solar 1956 June p. 97-106 1957 Apr. p. 54-61 animal behavior, bioelectricity, electrically controlled behavior plant growth, phytochrome, photoperiodicity, germination, pigment, 1960 Dec. p. 56-63 1962 Mar. p. 50-59 [464] flowering, photoreceptive enzyme in plants color vision, retina, cone cells, ganglion cells, spectrophotometry, threeanimal behavior, sex differences, hypothalamus, testosterone, sex 1964 Dec. p. 48-56 [197] hormones, pituitary hormones, sex differences in rat brain, effect of color receptor system chlorophyll, photosynthesis, chloroplast, electron transfer, ATP, testosterone 1966 Apr. p. 84-90 [498] cytochrome, role of chlorophyll in photosynthesis, attention, learning, novelty, conflict, monotony, conflict and arousal, 1965 July p. 74-83 [1016] aid to learning 1966 Aug. p. 82-87 [500] pillow lava, remanent magnetism, mid-Atlantic rift, ocean ridges, seaphysiological tremor, muscle contraction, sensory feedback floor spreading, submersible research eraft 1975 Aug. p. 79-90 [918] 1971 Mar. p. 65-73 [1217] pilot error, psychology, instrument panel, ergonomics, designing physiology, nervous system, endocrine system, respiration, nerve impulse, 1953 Apr. p. 74-82 [496] musele contraction, science, physiology 1900-1950 instrument panels for their users 1954 Jan. p. 38 1950 Sept. p. 71-76 Piltdown man, compound fraud pinch effect, fusion reactor, nuclear power, magnetohydrodynamics, microsurgery, laser, cell, laser lesions, cell organelle plasma containment, thermonuclear reaction, thermonuclear energy 1970 Feb. p. 98-110 [1170] 1957 Dec. p. 73-84 [236] counter-current exchange, rete mirabile, heat conservation, swim for domestic power Pine Lawn Valley, New World archeology, Cochise culture, Mogollon bladder, kidney, gill, physics of a physiological invention culture, 2500 B.C. to 1300 A.D. in New Mexico 1951 July p. 46-51 1957 Apr. p. 96 pineal organ, adrenal gland, biological clock, estrogens, progesterone, see also: neurophysiology, physiological psychology, comparative melatonin, serotonin, pineal regulation of sex glands physiology, human physiology 1965 July p. 50-60 [1015] physostigmine, alkaloids, plant physiology, morphine, strychnine, biological clock, circadian rhythm, house sparrow, photoperiodicity 'hemlock', caffeine, coniine, quinine, cocaine, ricinine, LSD, human 1972 Mar. p. 22-29 [1243] nonvisual light receptors toxins in plant physiology 1959 July p. 113-121 [1087] pink tooth disease, porphyria, dermatology, gene pool, tracking porphyria phytochrome, plant growth, photoperiodicity, germination, pigments, 1957 Mar. p. 133-142 among Afrikaaners pigment, flowering, photoreceptive enzyme in plants pinks, alpine environment, cushion plant, lammergeier, Himalayan 1960 Dec. p. 56-63 1961 Oct. p. 68-78 mountain ecology vision, photosynthesis, photoperiodicity, visual pigments, chlorophyll, pinocytosis, cell membrane, cytology, cell metabolism, ingestion by outer retina cells, plant growth, light and living matter 1961 Apr. p. 120-130 membrane 1968 Sept. p. 174-186 active transport, passive transport, phagocytosis, cytology, osmosis, cell 1952 Dec. p. 15-17 phytoplankton, algae, kelp, food chain, algin, agar membrane, fertilization, functions of cell membranes 1958 Oct. p. 56 antibiotic properties of 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diffusion, Sumerian writing



mesons, particle accelerator, proton, quark, high-energy physics, nucleons, Regge trajectory, high-energy scattering	planetary atmosphere, Jupiter, Taylor column, Great Red Spot, rotation period, hydrodynamic explanation vs. raft hypothesis 1968 Feb. p. 74-83
1967 Dec. p. 76-91 atomic nucleus, atomic structure, exotic atoms, kaonic atoms, muonic	Jupiter, Jovian meteorology, planets, solar system, Great Red Spot 1976 Mar. p. 46-50
atoms, particle accelerator, quantum mechanics, high-energy physics 1972 Nov. p. 102-110	planetary motion, astronomy, philosophy of science, galactic clusters,
peline transportation, anhydrous ammonia fertilizer 1968 Oct. p. 61 ipelines, natural gas, economic regionalism in U.S., appraisal of natural	universe, solar system, cosmology, introduction to single-topic issue on the universe 1956 Sept. p. 72-8
gas, economics and resources in U.S. 1951 Nov. p. 17-21 agricultural irrigation, canals, hydro-engineering, Jordan Valley Plan,	Antikythera, Greek computer, ancient instruments, science history, Classical archeology, computer technology, 2,000-year-old computer
water supply, Israel, Jordan 1965 Mar. p. 23-31 fluid dynamics, oil, gas, slurries, history and technology of pipelines	1959 June p. 60-6' calendar, solar system, time, heliocentric theory, year, astronomy,
1967 Jan. p. 62-72 natural gas, liquid natural gas, tankers, storage, distribution of LNG	Copernicus, astronomy, Copernicus, length of calendar year 1966 Oct. p. 88-99
1967 Oct. p. 30-37 network analysis, nodes and branches, powergrids, graph theory,	Doppler effect, radar astronomy, delay-Doppler mapping, Mercury, Venus, microwaves 1968 July p. 28-3
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transmission, tankers, power, economic geography of energy	planetary motion models, Copernicus, Tycho Brahe, solar system, science
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1971 Sept. p. 164-175 [669]	planetary nebulae, spectroscopy, nebulae, shells of luminous gas around
pit viper, rattlesnake, fangs, high-speed photography, rattlesnake 'bite' is	hot, dense stars 1963 Apr. p. 60-69
a stab 1953 Oct. p. 100–102	planetary systems, extraterrestrial intelligence, interstellar communication, origins of life, cyclops project
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pituitary gland, ACTH, gonadotrophic hormones, metabolic hormones,	planetisimal collisions, albedo, asteroids, meteorites, solar system
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1950 Oct., p. 1822	planets, Palomar Observatory, photographs of the planets by 200-inch
goiter, thyroid, metabolism control, thyroxin, role of thyroid in	telescope 1953 Feb. p. 17-2 interferometry, solar system, moon, ionosphere, radar astronomy,
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technology 1956 June p 131-138 pneumatic propulsion, mass transit, underground transport, railway.	Sabin type III vaccine infections Sabin vaccine for children	1964 Nov p 58
gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40	polio virus, virus culture, human embryo tissue	1955 Sept p 76
pneumatic servomechanisms, control systems, automatic control,	poliomy elitis, gammaglobulin, epidemiology, immur	uty, blood 1953 July p 25-29
servomechanisms, actuators, frequency response, hydraulic	fractionation, vaccine	
servomechanisms, control systems 1952 Sept p 56-64	slow virus infection, multiple sclerosis, myelin she factor, latent viruses	ואר ע נוגונ טו פו
pneumatics, Boyle's law, chemical experimentation, science listory, philosophy 1967 Aug p 96-102	exaggerated figures	1949 Oct p 28
pneumococcus, bacteria, gene transformation, drug resistance,	stress susceptibility	1950 Nov p 25
streptomycin, recombinant DNA, bioclicnistry of Avery, McLcod	gamma globulin field trials	1952 Dec p 28 1955 Dec p 48
and McCarty experiment 1956 Nov p 48-53 [18]	crystallized animal carriers of polio virus	1956 Apr p 64
gene transformation, cell wall, recombinant DNA, transformation	Coxsacki-polio link	1959 Jan p 66
nduced by factor synthesized by cell 1969 Jan p 38-44 Pockel's effect, communication technology, laser, pulse-code modulation,	US polio by socioeconomic status	1959 Apr p 64 1977 Sept p 96
electron optics, Kerr effect, polarization, modulators, modulation of	1 L	enecificity, infective
laser light 1968 June p 17–23	poliomy elitis virus, central nervous system, infective specificity, epidemiology, nature of the disease:	and public health
pocket calculator, calculating machine, computer, integrated circuits,	tation before production of the Caccines	1720
pod corn, corn, genetics, teosinte, tripsacum, popeorn, hybrid cells, New	1 bacterionhage Dacie	nopbage, antigen
World archeology, plant genetic experiment and archeological finds	antibody reaction, immunity, infection, bost-spe	1951 May p 43-51
noint to pool corn as wild ancester of maise 1950 July p 20-24 [20]	infection and in the laboratory tissue culture, rhesus embryo, serial passage, polio	vaccine, tissue
podzale, soil structure, chernozems, latozols, tundra, alluviai soiis,	culture of virus opens way to vaccine	1952 Nov p 26-29
agronomy, ecology of soil, soil erosion, the soils of the world and	and amplication of the dynamics of the state	1955 Apr p 42-44
poison ivy, allergie reaction, autosensitivity, dermatitis, rheumatoid	anteroverices Coxsackie virus, tissue culture, echo	aluses
arthure multiple selectors delayed hypersensitivity	epidemiology, benign and infectious intestinar.	1959 Feb p 88-97
1900 Apr p 125-131	adenoviruses, virology, X-ray diffraction, polyoma	virus, herpes virus,
poisons, ionizing radiation, radioautography, 'bone-seekers', chelate,	influenza virus, vaccinua virus, robacco in-	1963 Jan p 48-30
scintination countries block tetrodotoxin, saxitoxin, puffer	structure of viruses DNA, genetic code, protein synthesis, RNA, virus	multiplication virus
fish California newt	of structure	1975 May p 24-31 1954 Jan p 42
and the like		me melting
polar bears, animal migration, telemetry, satellite, Arctic, satellite, polar bears, animal migration, telemetry, satellite, Arctic, satellite, 1968 Feb. p. 108–116 [1102]	polishing, Beilby layer, burnishing, abrasion hypothe-	1968 June p 91-99
tracking of ingraphere climate 'canals', picture from Earth-	hypothesis politics, cosmology, Laplace, physics, life and work o	r Precre Simon de
bound study 1953 May p 65-73	Laplace	derives cold war.
Manner 7 telemetry, orbital motion, television	Laplace politics of aid, economic development, military expen	1972 Apr p 15-21
camera, cratering, surface pictures and map 1970 May p 26-41	rich nations, poor nations	at morphology
polar ecology, algae, lichens, symbiosis, fungi, desert ecology, symbiotic	_	
polar ecology, algae, ichems, symbolosis, range, 1959 Oct p 144–156 [111] nature of lichens	honeybee housekeeping, honeybee, hive environme	nt Apr p 92–98 [1247]
caribou, cold adaptation, rodent, moose, ainmai adaptation to 60-68	pollen analysis, radiocarbon dating, paleobotany, carl	Lan 1/1
an atmosphere weather atmospheric	pollen analysis, radiocarbon dating, pateosottaly, archeological dating	1952 Feb p 24-28
circulation, index cycle 1956 Aug p 50	archeological dating pollen chronology, glaciation, micropaleontology, livii 1949	May p 48-51 [834]
polar ice cap, glacial cycle theory	age pollinators, fertilization of flowers, flower, species spe	mfrosts:
Polaris, arms race, missile submarmes, 3227, 1972 June p 15-27 [344]	polinators, terunzation of floriers, florier, of	1951 June p 52–56
missile missile astronomy, supernovae, Crab Nebula, photometric	pollution, ocean, mineral resources, sea water, wetland	ls, ocean 1001, pt p 166-176 [885]
observations of nova outbursts	physical resources of the ocean	ydrocarbons,
communication technology, laser, puise-code modulation of laser	DOT dieldrin, avian reproduction, inscouches	ood chain
optics, Kerr effect, Pockel's effect, modulators, 1968 June p 17–23	ecological effect of pesticides	ation, biosphere,
light polarized light, animal navigation, Nichol prism, dichroic material 1955 July p 88-94	human population, food production, let thizers, hing	pacity to produce
horseshoe crap	food	1 p 160–170 [1196] 1966 May p 52
insect behavior, ants, bee, insect eye, anima navigation [1342]	trash no place to put it	llout
police laboratory, crime detection, forensic chemistry 1953 Feb p 58-66 police laboratory, crime detection, forensic chemistry 1953 Feb p 58-66 1953 June p 50	see also air pollution, heat pollution and the inter-	nal disputes,
notic gamma globulin, available to	oceanography, resource management, 1000 Car	al competition and of p 218-234 [888]
nalio prevention, globalin and authors thesus embryo, scriai	cooperation energy	resources
naceage lissue curture of the 1952 Nov p 20-20	coal gasification, gas turbine, on gasification, charge	1972 Oct p 26-35
1953 Mar p 32	ocean pollution water quality, waste disposal in ocea	ons 1974 Aug p 16-25
killed virus nears test 1953 May p 58 Gret killed-virus trials 1953 Dec p 52		1948 Sept p 29
field test for Salk 1954 June p 48	Federal clean-water act	
Salk trials proceed		
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pollution effects, city trees, tree cloning, ailanthus, ginkgo, London plane,	DNA, RNA, genetic code, chromosome, protein synthesis, indicedial
pollution effects, city frees, free clouds, and	
Norway maple 1976 Nov p 110–118	collagen, elastin, keratin, myosin, fibrin, cell, polymers in living cells 1957 Sept p 204-216 [35]
poly I:C, interferon induction, synthetic RNA, virus disease	
1971 July p 26-31 [1226]	molecular science, addition polymers, condensation polymers,
polyacrylates, soil conditioners, humus, polyvinylites, cellulose, tilth	introduction to single-topic issue on 'giant molecules'
1953 Aug p 36–38	1957 Nov. p 80-89
polyalphabetic systems, cryptology, code, rotor machine, cipher, history	molecular weight determination, light scattering, viscometer,
and technology of making and breaking ciphers and codes	photometer, how giant molecules are measured 1957 Nov p 90-97
1966 July p 38–46	catalysis, materials technology, industrial chemistry, stereoisomers,
polycy clic aromatic compunds, aromatic hydrocarbons, molecular	synthesizing giant molecules 1957 Nov p 98–104
structure pyrogenesis 1976 Mar p 34-45	'stereoregular' polymers, isotactic polymers, polyethylene, catalytic
polyethylene, polymers, catalytic polymerization, thermoplastic polymers,	polymerization, polypropylene, precisely constructed polymers
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plastic 1957 Sept p 139–152	glass, metals, materials technology, ceramics, chemical band, composite
polymers, 'stereoregular' polymers, isotactic polymers, catalytic	materials, atom, elements, introduction to single-topic issue on materials 1967 Sept. p. 68–79
polymerization, polypropylene, precisely constructed polymers	
1961 Aug p 33–41 [315]	materials technology, natural polymers, plastics, cross-linking, covalent
carbon, spherulites, plastics, solid state physics, crystallography	bonds 1967 Sept p 148–156
1964 Nov p 80–94	heat resistance, materials technology, plastics, aromatic hydrocarbons,
Ziegler process 1955 Aug. p 48	high-temperature-resistant plastics 1969 July p 96–105 'iig' for polymerization 1958 July p 50
polygons, physics, crystal structure, polyhedra, axis of rotation,	10 1 1
philosophy of science, topological limits of physics	see also amorphous polymers polymorphism, genetic variation, gene mutation, natural selection,
1953 Jan p 50-56	mollusk shells, biological diversity, discontinuous variation
topology, shape, polyhedra, tessellation, space-filling	1975 Aug p 50–60 [1326]
1954 Jan p 58–64	Polynesian culture, Easter Island, stone heads 1949 Feb p 50-55
polygraph, anxiety, lying, psychosomatic illness, guilt, breathing, pulse	cultural evolution, language, tools, settlement of South Sea Islands,
rate, skin temperature, 'he detector' mis-named 1967 Jan p 25-31 [503]	origin of Polynesians 1956 Aug, p 58–72
	polynomial-time problems, algorithms, computer science, Koenigsberg
Jenner III	bridges, undecidable questions, exponential-time problems,
invalid results 1963 July p 66 'lie detector' discredited 1965 May p 50	efficiency of algorithms 1978 Jan p 96–109 [395]
polyhedra, physics, crystal structure, polygons, axis of rotation,	polyoma virus, carcinogenesis, recombinant DNA, virus disease,
philosophy of science, topological limits of physics	'temperate' infection, genetic transduction, viral induced malignancy
1953 Jan p 50-56	1960 Nov. p 63–71 [77]
topology, shape, polygons, tessellation, space filling	adenoviruses, virology, X-ray diffraction, poliomyelitis virus, herpes
1954 Jan p 58–64	virus, influenza virus, vaccima virus, tobacco mosaic virus,
virus structure, virus shell, bacteriophage, assembly of T4 subunits	bacteriophage, structure of viruses 1963 Jan p 48-56
from core out 1966 Dec p 32–39 [1058]	gene culture, cell transformation, SV40 virus, viral DNA, viral
polyhedral-hole model, liquid structure, five-fold symmetry, geometrical	carcinogenesis 1967 Apr p 28–37 [1069]
arrangement of molecules in a liquid 1960 Aug p 124-134 [267]	polypeptide chain, proteins, amino acids, hydrogen bonds, X-ray
polymer microstructure, amorphous polymers, random-coil model,	crystallography, alpha helix 1954 July p 51-59 [31]
semicrystalline polymers, synthetic polymers, thermoplastic	polypeptide synthesis, collagen, proteins, beta chain, alpha helix,
polymers 1975 Dec p 96–106	polymers, amino acids, synthesis and architecture of proteins
polymer structure, morganic polymers, materials technology, polymeric	1957 Sept p 173–184 [7]
sulfur, silicon polymers 1974 Mar p 66–74	by laboratory DNA 1965 June p 56
polymeric sulfur, inorganic polymers, materials technology, polymer	polypropylene, polymers, 'stereoregular' polymers, isotactic polymers,
structure, silicon polymers 1974 Mar p 66-74	polyethylene, catalytic polymerization, precisely constructed
polymerization, tonizing radiation, free radicals, organic chemistry,	polymers 1961 Aug p 33-41 [315]
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archeology, evidence for 3,000 B C trans-Pacific contact	transmission, hydroelectric power generation, corona discharge, economic advantages of high-voltage transmission
1966 Jan p 28-35 pottery age, fission-track dating, geochronology, glass age, meteorite age,	1964 May p 38-47 energy economics, energy storage, economic geography, pipelines,
mineral age, radioactive decay, uranium fission	tankers, power, economic geography of energy production,
poultry, manure-algae-chickenfeed cycle 1976 Dec p 114–122 1970 Nov p 46	distribution and consumption 1971 Sept p 164–175 [669] superconducting cables 1969 Aug p 48
poultry production, agricultural technology, food production, animal	powergnds, network analysis, nodes and branches, pipelines, graph
husbandry, chucken, eggs, U S chucken factories 1966 July p 56-64 poverty, agricultural production, education, economic development,	theory, rehability analysis 1970 July p 94-103 PPLO: pleuropneumonia-like organism
language, Peru, literacy, Cornell-Peru experiment in economic development 1957 Jan p 37–45	PPLO, bacteriology, microorganisms, virus, electron microscopy, cytology, smallest free-living cells 1962 Mar p. 117–126 [1005]
soil erosion, irrigation, agricultural technology, economic development,	timest organism found to be infectious 1959 Mar p 65
afforestation, Mediterranean Project, United Nations 1960 July p 86–103	praine dogs, comparative psychology, animal behavior, social behavior, territorial behavior, innate behavior, learning behavior, field
education, group behavior, rural poverty, community action, emotional illness, social psychology, study of community regeneration	observation of prairie dog communities 1959 Oct p 128–140
1965 May p 21-27 [634]	precambrian animals, coelenterata, fossil record, life 500 million years
racial discrimination, segregation, American Negro, Puerto Ricans, housing 1965 Aug p 12–19 [626]	before present 1961 Mar p 72–78 [837] Precambrian fossils, gunflint cherts 1965 Apr p 60
shantytowns, Calcutta, cities, urbanization, caste, housing, traffic, Calcutta, a city of the poor 1965 Sept p 90–102	Precambrian reactor, fission products, natural reactor, nuclear fission,
group behavior, community action, culture of poverty, subculture of	Oklo phenomenon, uranium deposits 1976 July p 36–47 Precambrian rocks, bacteria, blue-green algae, fossil cells, evolution,
Western market societies 1966 Oct p 19-25 [631] human nutrition, hunger, population growth, developing countries,	Gunflint cherts, origins of life, prokaryotic cells, oldest fossils
health, world poverty 1968 Nov p 27–35 Mexico City, buying habits, sociology, culture of poverty	1971 May p 30-42 [395] precession, Chandler wobble, earthquake effects, Earth rotation
1969 Oct p 114-124 [651]	1971 Dec p 80-88 [897] precipitation, water cycle, transpiration, evaporation, runoff, agricultural
adolescence, family, alienation, racial discrimination, divorce, infant mortality, crime, suicide, drug addiction, changes in American family structure 1974 Aug p. 53-61 [561]	system, ocean, biosphere, photosynthesis
developing countries, hunger, malnutrition, food and agriculture,	precipitation in solids, materials technology, solid state physics, crystal defects, epitaxial growth, surface chemistry, 'doping', chemical
human nutrition 1976 Sept p 40-49 in US population 1972 Apr p 56	properties of materials 1967 Sant = 210, 220
power, electronics, electron tubes, amplifiers, communication technology, recufiers, electron optics, cathode ray tube, communication,	predation, alfalfa caterpillar, ecology, insecticide, life cycle, agricultural pest, wilt disease 1954 June p 38-42
thermionic emission, state of the technology 1950 Oct p. 30-30	25-3 date p 30-42
Atomic Energy Act, patent law, licensing international cooperation, military secrecy, inernational cooperation, major provisions of	
Atomic Energy Act of 1954 1954 Nov p 31–35	

biological sciences, mathematics, self-reproducing machine, nerve	nelmate as also for the same
impulse, Furing machine, automata theory, mathematics in biology	primate evolution, anthropoid, fossil primates, hominoid, early relatives
1964 Sept. p. 149 16	
plant toxins, food chain, milkweed, blue fiv. preditor-prev	Olega, rayun, Aegypiopimecus,
relationship, minitery, ecology, chemical defense against predation	hominid luman et olution. Magana facula Danie et en
1969 Feb. p. 22_20 (1123	1977 May p 28-35 [695]
air poliution, evolution, melanism, moths, gene mutation, population	Gigantonitherus yawan India
genetics, evolution observed again 1975 Jan p 90-99 [1314	primate societies, primate behavior, monkey, Japanese macaques,
predator-prey relationship, tarantula, digger wasp, symbiosis	protocultural behavior, social status 1976 Oct p 96–106 [1345]
1952 Aug p 20-23	primates, man-apes, human evolution, Plesianthronus, Australontherus
animal behavior, tawny owl, nocturnal animals 1955 Oct p 88-98	Paranthropus, hominids branched from other primates 30 million
insect venom, Chaga's disease, assassin bugs, entomology, natural history	years ago 1948 May p 16-19
insect evolution, predatory wasps, solitary wasps, species specificity,	mental evolution, overprinceus, orepititeeus in micage of florid sapiets
parasitism, behavioral clues to evolution 1963 Apr p 144-154	1956 June p 91-100
parasitism, behavioral clues to evolution 1963 Apr p 144-154 archer fish, animal behavior, natural lustory, Toxotes	,
1963 July p 100-108	fossil record, origin of human walking 1967 Apr p 56-66 [1070]
sonar, bats, moths, auditory perception, ultrasound, moth sonar	[The state of the
detection of bat ultrasound 1965 Apr p, 94-102 [1009]	efficiency, power, steam turbines, magnetohydrodynamics, gas
predation, plant toxins, food chain, milkweed, blue jay, mimicry,	turbine, internal combustion engine, fuel cell, solar cells, power, nuclear power, comparative efficiencies of energy transformation
ecology, chemical defense against predation	pathways in industrial civilization 1971 Sept p 148–160 [668]
1969 Feb p 22-29 [1133]	prime number, number theory, magic squares, binary anthmetic,
animal behavior, lions, symbiosis 1975 May p. 54-65	composite numbers 1951 July p 52-55
animal behavior, spiders, Arachnida, social spiders	mathematics, science history, sieve of Eratosthenes, mathematical
1976 Mar p 100-106	sieves and their uses 1958 Dec p 105-112
predatory wasps, insect evolution, solitary wasps, species specificity,	computer generates largest 1952 Feb p 40
predator-prey relationship, parasitism, behavioral clues to evolution	largest is 10 ^{19 937} -1 1971 June p 56
1963 Apr. p 144–154	rep-unit R ₃₁₇ 1978 Feb p 89
prefrontal lobotomy, psychosurgery, after 5,000 operations in the US, an	primeval fireball, cosmology, universe expansion, cosmic background
evaluation 1950 Feb p 44-47 [445]	radiation, 'big bang' theory, low-energy radiowaves, isotropy, helium
pregnancy, epidemiology, stress, anoxia, Down's syndrome, trisomy 21,	abundance, 'big bang' theory and cosmic background radiation 1967 June p 28-37
etiology of Down's syndrome 1952 Feb p 60-66 progesterone, uterine muscle, hormone, mensirual cycle, hormone	1056 May n 61
inhibition of uterine muscle contraction 1958 Apr p 40-46 [163]	primitive ants, Aneuretus simoni Emery 1956 May per primitive architecture, building construction, architecture, climate, igloo,
congenital anomalies, purpura, virus disease, vaccine, teratogenesis,	teenee sourt tent cod hut adobe house hogan still house
congenital rubella, rubella 1966 July p 30–37	1960 Dec p 134-141
prejudice, hostility, insecurity, attitude survey 1950 Oct p 11-13	neimity a mathematics, mathematics, geometry, topology, guinary system,
racial discrimination, American Negro, public opinion, attitude survey,	decimal system tessellation knots 1940 Dec P T
US whites, segregation, integration, longitudinal attitude study	primordial dust cloud, chondrites, chondrule, solar system, shock waves,
1978 June p 42-49 [707]	genesis of the solar system 1903 Oct P vi and
unreal stereotypes 1954 Aug p 42	comet ongins, cometary structure, exotic molecules, solar system,
premature discoveries, artistic creations, scientific creations, uniqueness	Comet Kohoutek albedo, asteroids, meteorites, planetisimal collisions, solar system 24-33
of scientific discoveries 1972 Dec p 84-93 [1261] premature infants, retrolental fibroplasia, epidemiology, oxygen, infant	formation 1975 Jan p 24-33
mortality, blindness, 'blind babies' 1955 Dec p 40–44	di anno alla di anno abandatos meteorites solar system
alveoli, lung collapse, lecithin, breathing, surface tension, surfactant,	1975 Feb p 55 55
hyaline membrane disease, soaplike agents regulate surface tension	primordial fireball, galactic evolution, gravity, red shift, gravitational
in lungs 1962 Dec p 120–130	
blindness, neonatal disorder, medical ethics, medical researches,	1970 Julie P 25
retrolental fibroplasia, 'blind babies' 1977 June p 100–107 [1361]	printing, electronic typesetting, photographic typesetting, digital
prenatal genetic diagnosis, amniocentesis, enzyme deficiency, genetic	computer, mechanical composition, cathode-ray tube, computer applications 1969 May p 60-69
disease, hemophilia, Down's syndrome, Tay-Sachs disease, chromosomal anomalies 1971 Nov p 34-42 [1234]	
chromosomal anomalies 1971 Nov p 34-42 [1234] prestressed concrete, building construction, architectural engineering.	genting Girard and interferometry 1900 Dept P '-
materials technology 1958 July p 25–31	private-enterprise sector, employment, pluralistic economy, public sector,
preventive medicine, medical care, People's Republic of China, primary	
care 'harefoot doctors' 1974 Apr p 19-27	1976 Dec p 25-29
read readstor relationship, escape response, marine invertebrates, stariish,	proactive inhibition, learning, forgetting, retroactive inhibition, recall, interference theory 1967 Oct p 117–124 [509]
tympets scallon snail chemical signals 1972 July p 92-100 [1254]	probabilistic potential theory, Brownian motion, potential theory,
price trends, input-output analysis, interchangeability of materials, cost	harmonic functions 1969 Mar p 66-74
assessment, materials technology, metals, plastics, competition	probability, law of large numbers, gambler's fallacy, random walk,
among materials 1967 Sept p 254-260 Priestley, phlogiston, oxygen, chemistry, life and work of Joseph Priestley 1964 Oct. 68-73	mathematical proof, philosophy of science 1950 Oct p 44-47
1904 Oct p 00-15	games theory, uncertainty principle, decision theory, pure strategy,
primary care, medical care, People's Republic of China, preventive	card games illustrate theory 1951 Jan p 44-47 quality control, statistical sampling, sequential analysis
	quanty control, statistical sampling, sequential analysis 1953 Mar p 29-33
	statistics, mathematical proof, fundamental reasoning, fundamental
primary physicians, Flexner report, incutes education, medical care specialties, foreign medical graduates, medical research, medical care 1973 Sept p 138-148	research. What is probability? 1953 Sept. p. 128–136
1975 Sept p 150 1.0	Monte Carlo method, Buffon needle problem, random numbers,
primate behavior, chimpanzee, social behavior, tool-using, comparative psychology, observation of chimpanzees in the wild psychology, observation of chimpanzees in the wild 1962 May p. 128–138 [463]	mathematics 1955 May p 90-96
psychology, observation of champathers 1962 May p. 128–138 [463]	galactic clusters, universe, gravitation, cosmology, Monte Carlo method, distribution of galaxies as test of cosmologies
monkey, Japanese macaques, primate societies, protocultural behavior, 1976 Oct p 96-106 [1345]	1956 Sent p 187-200
monkey, Japanese macaques, primate societates p 96–106 [1345] social status 1964 Jan p 56	marshology decision making, subjective probability. Monte Carlo
	' a st a smblung subjective and objective probability
smile primate biology, Yerkes Laboratories, chimpanzee 1955 Feb p 67–75	1957 Nov p 128–1,21

games theory, human conflict, zero-sum game, military strategy, use and misuse of game theory 1962 Dec. p 108-118	prokaryotic cells, bacteria, blue-green algae, fossil cells, evolution, Gunflint cherts, origins of life, Precambrian rocks, oldest fossils 1971 May p 30-42 [395]
chance, odds, calculus of chances, causation, philosophy of science, logician's point-of-view 1965 Oct. p 44-54	cell evolution, cell organelle, chloroplast, endosymbiosis, eukaryotic cells, mitochondria, symbiosis, algae, cilia, flagella, plastids
antigravity, time reversal, CPT symmetry, antimatter, philosophy of science 1967 Jan p 98-108	1971 Aug p 48–57 [1230]
Benford's Law, digits, number theory, first-digit distribution 1969 Dec p 109-120	prolactin, ACTH, hormone, sexual characteristics, growth, thyroid- stimulating hormone, follicle stimulating hormone, androgens,
confirmation theory, hypothesis-testing, logic, inductive proof, philosophy of science 1973 May p 75-83	estrogens, secondary sexual characteristics, human physiology, endocrine system, chemical integrators of the body
see also, subjective probability	1957 Mar p 76–88 [1122] proline, collagen, hydroxyproline, collagen fibril, tropocollagen,
probability learning, evolution, intelligence, habit reversal, intelligence compared in five animals 1965 Jan p 92–100 [490]	connective tissue, nature and properties of most abundant protein
probability of death, life expectancy, historic changes in average length of	1961 May p 120-130 propellant, combustion instability, rocket engine, resonant combustion,
human life 1950 Apr p 58-60 probability, mathematics, combinatorial analysis, normal curve, Brownian	acoustic oscillation 1968 Dec p 94–103
motion, Markov chain, Pascal's triangle, statistics, probability theory	property damage, atomic bomb, blast waves 1953 Apr p 94-102
problem box, animal behavior, intelligence test 1964 Sept p 92–108 1951 June p 64–68	proprietary hospitals, medical economics, medical care, public funds,
problem solving, curiosity, rhesus monkeys, genetic traits, animal	municipal hospitals, voluntary hospitals, metropolitan medical economics in New York City 1965 Jan p 19–27
behavior 1954 Feb p 70–75 Gestalt psychology, insight, fixation, the 'aha' reaction	propulsion, heat, energy transformation, aerothermodynamics, laminar
1963 Apr p 118–128 [476]	flow, turbulence, high temperatures propulsion 1954 Sept p 120-131
games theory, logic, computer theory, algorithms, Turing machine 1965 Nov p 98–106	aerospace technology, Coanda effect, fluid dynamics, aerodynamics,
two heads best 1953 Jan. p 38	nozzles, burners, nature and applications of Coanda effect 1966 June p 84-92
procaine, anesthesia, pain, cocaine, surgery, medical research, neuropharmacology, pharmacology, psychiatry, research in pain	prospecting, chemical analysis, uranium ore, chemical prospecting
suppression 1957 Jan p 70-82 process control, chromatography, automatic control, control systems,	1957 July p 41-47 see also mineral prospecting and the like, aerial photography, natural
predictive control 1969 June p 112–120	resources, remote sensing
product safety, consumer-product research, consumer protection, energy conservation, household appliances, product technology, N B S	prostaglandın, fatty acıds, feedback, hormone-lıke substances, drug therapy, nervous system 1971 Nov p 84–92 [1235]
1977 Dec p 47-53	synthesized 1968 July p 50 prostheses, pharmaceutical industry, F D.A, medical care, medical
product technology, consumer-product research, consumer protection, energy conservation, household appliances, product safety, N B S	economics, drug prescription, drug research, medical laboratory
1977 Dec p 47-53 production statistics, distribution of wealth, economic development,	services 1973 Sept. p 161–166 protein coat, bacteriophage, genetics, reproduction, tracer experiments,
middle classes, population growth, natural resources, demographic	DNA 1953 May p 36-39
transition 1976 July p 28-35 production workers, labor force, productivity, service workers	protein-cutting enzymes, catalytic proteins, enzyme action, proteolytic enzymes, serum proteins, chymotrypsin, elastase, trypsin
1951 Sept. p 36-41	1974 July p 74–88 [1301]
productivity, labor force, production workers, service workers 1951 Sept. p 36-41	protein evolution, cytochrome C, protein structure, respiration, amino- acid substitution, mutation rate, 1.2 billion year record of evolution,
capital-output ratio, labor force, automatic control, economic and social impact of automatic control 1952 Sept. p 150–160	ancient protein 1972 Apr p 58–72 [1245] protein folding, lysozyme, X-ray crystallography, enzyme-substrate
mechanization, capital cost, labor cost 1955 July p 33-35	complex, amino-acid sequence, three-dimensional structure and
employment, pluralistic economy, public sector, private-enterprise sector, US economy, not-for-profit sector 1976 Dec p 25-29	action of lysozyme 1966 Nov p 78–90 [1055] protein from coal, nutrient for microorganisms 1965 Nov p 52
professional organizations, elections to National Academy and American	protein molecule, blood plasma, collagen, cell surface antigens,
Philosophical Society 1948 July p 31 progenitive family, developed countries, human population, demographic	grycoproteins, interferon 1974 May p 78–86 [1295] protein 'overcoat', virus structure, DNA 1954 Dec p 62–70 [32]
transition 1974 Sept. p 122–132 progesterone, fertilization, parthenogenesis, hyaluronidase, zona	virus, tobacco mosaic virus, nucleic acid 'core', dissociation and
pellucida 1951 Mar p 44-47	reconstitution of infective particles 1956 June p 42-47 protein production, petroleum-eating microorganisms protein source(?)
pregnancy, uterine muscle, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40-46 [163]	1965 Jan p 49 protein separation, electrophoresis, Schlieren scanning, moving-boundary
adrenal gland, pineal organ, biological clock, estrogens, melatonin,	electrophoresis 1951 Dec. p. 45–53
serotonin, pineal regulation of sex glands 1965 July p 50-60 [1015] programmed instruction, computer technology, education, teaching	protein shape-change, enzyme action, lock-and-key theory, molecular structure, protein structure 1973 Oct p 52-64 [1280]
machine, individualized teaching 1966 Sept. p. 206–220 [533] Project Cirrus, weather control, cloud seeding, silver iodide, condensation	protein structure, protein synthesis, amino-acid sequence, peptide bond, hydrogen bonds, tertiary structure, nature, diversity and function of
nuclei, dry ice 1952 Jan. p. 17–21	proteins 1950 June p. 32–41 [10]
project grants, N S F, 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research,	chemistry, chemical bond, molecular structure, crystal structure, chemical kinetics, science, chemistry 1900-1950 1950 Sept. p 32-35
university science, problems in government support of science in the	insulin, amino-acid sequence, first total sequence 1955 \fax p 36.41
Project Tinkertoy, automatic manufacture, electronic equipment,	insulin, ribonuclease, amino-acid sequence, enzyme action, myoglobin, resolution of atomic structure of three molecules
projectile, meteorites, cratering impact crater fluid impact effect of	1961 Feb p 81-92 [80] amino-acid sequence, gene-protein colineanty, DNA structure,
mgn-speed impact 1960 Oct p 178-140	mutation, gene mapping, base 1967 Max p. 80_04 [1074]
projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, Pascal's theorem, mathematics, projective geometry as	keratin, A-ray diffraction, alpha keratin, feather keratin
systematized by Poncelet and Klein 1955 Jan p 80–86 prokaryote origin, chloroplast, mitochondria symbosis cell organelle	cytochrome C, protein evolution, respiration, amino-acid substitution,
protein synthesis plastids, cell evolution, extra nuclear	mutation rate, 1 2 billion year record of evolution, ancient protein 1972 Apr p 58-72 [1245]
genetic activity in cell 1970 Nov p 22-29 [1203]	1212 Uhr h 20-17 [1742]

enzyme action, lock-and-key theory, molecular structure, protein	
Situpe-change 1973 Oct p 52-641129	collagen, beta chain, alpha helix, polypeptide synthesis, polymers,
ribonucleuse in three dimensions 1967 Mar p 4	to proteins
carboxypeptidase 1968 Apr n	
protein switch, actu, muscle contraction, muscle fibril, tropomyosin.	y - B y y y y y y y y y y y y - y
tropouth, myosin, calicum in muscle 1975 Nov. p. 36-45 (132)	Structure of protein molecule 1961 Dec p 96-11 [121]
protein synthesis, protein structure, amino-acid sequence, pentide hand	pantida hand among the straining point curture 1903 May p 143-132
hydrogen bonds, tertiary structure, nature, diversity and function of	enzymes, structure and function of protein-digesting enzymes
proteins 1950 June p. 32_41 116	n state of protein digesting enzymes
neredity, chromosonie, DNA, RNA, nucleoproteins, DNA identified a	s petroleum, food production, petroleum fermentation
agent of heredity 1953 Feb in 47_57 tox	1965 Oct p 13-17
bacteria, genetic code, DNA, RNA, protein synthesis by bacterial	cyclution, species specificity, computer analysis, cytochrome, amino-
DNA-RNA in vitro 1956 Mar p 42-4	acid substitution, phylogeny from amino-acid substitution
DNA, RNA, genetic code, chromosome, polymers, molecular genetics	1969 July p 86-95 (1148)
as of nud-1957 1957 Sept p 188-200 [54	grain, plant protein, plant hybrids, agronomy, Triticale
microsome, ribosome, RNA, cytology, recognition of ribosome as site of protein synthesis 1958 Mar p. 118-124 152	1974 Aug p 72-80
of protein synthesis 1958 Mar p 118-124 [52 RNA, DNA, recognition of RNA as transcriber of DNA	
	1977 June p 108–119 [1360]
1959 Dec p 55-69 antibodies, antigens, inimunology, ininiune response, mutation,	
selection theory of immunity 1961 Jan p 58-67 [78	proteolysis, bacteria, infection, viral DNA, DNA sequence, restriction
ribosome, DNA, mRNA, tRNA, nucleus, chromosome, cytology, how	enzymes, bacterial recognition and rejection of exotic DNA 1970 Jan p 88-102 [1167]
cells make molecules 1961 Sept p 74-82 [92]	proteolytic enzymes, proteins, peptide bond, zymogen, trypsin,
mRNA, gene transcription, the RNA messenger from gene to protein	hydrolysis, enzymes, structure and function of protein-digesting
synthesis 1962 Feb p 41–49 [119]	enzymes 1964 Dec p 68-79
DNA, genetic code, base triplets, nucleotide sequence, codon, base	catalytic proteins, enzyme action, protein-cutting enzymes, serum
triplet established as codon 1962 Oct p 66-74 [123]	proteins, chymotrypsin, elastase, trypsin 1974 July p 74-88 [1301]
mRNA, tRNA, genetic code, DNA, ribosome, genetic code elucidated,	protocultural behavior, primate behavior, monkey, Japanese macaques,
amino acid 'dictionary' 1963 Mar p 80-94 [153]	
DNA, polyribosomes, RNA, ribosome 1963 Dec p 44-53	
genetic code, tobacco mosaic virus, RNA nucleotides, amino-acid	instability, primordial fireball, nonuniformities, origin of galaxies
sequence, mutation, relation of RNA mutations to amino acid	1970 June p 26-35
changes 1964 Oct p 46–54 [193]	proton, elementary particles, electron, particle counters, neutron, positron, mesons, photon, neutrino, particle accelerator, nuclear
enzymes, hemoglobin, myoglobin, control systems, feedback, cooperative enzymes, allosteric enzymes, control of biochemical	binding force, 'Meson Song' 1948 June p 26-39
reactions 1965 Apr p 36-45 [1008]	electromagnetic force, nuclear forces, neutron, mesons, particle
antibiotics, streptomycin, genetic code, ribosome, DNA, RNA,	scattering, high-energy physics, fundamental research, what holds
mutation, 'misreadings' induced by antibiotic alterations of	the nucleus together? 1953 Sept p 58-63
ribosomes 1966 Apr p 102–109	photographic emulsion, particle tracks, cosmic radiation, neutron,
amino acids, DNA, genetic code, mutation, molecular biology, triplets,	electron, characteristic 'signatures' of particles 1956 May p 40-47
RNA, anticodon, ribosomes, triplets, wobble hypothesis	antiproton, positron, Bevatron, antimatter, high-energy physics,
1966 Oct p 55-62 [1052]	postulation and discovery of antiproton 1956 June p 37-41 [244]
bram metabolism, memory, goldfish, learning, conditioned behavior	atomic nucleus, shell model, optical model, high-energy physics, liquid- drop model, charge exchange, spin-orbit force, resonance 'particles',
1967 June p 115–122 [1077]	neutron, structure of the nucleus 1959 Jan p 75-82
amino acids, formylmethionine, ribosome, mRNA, tRNA, initiation of protein synthesis 1968 Jan p 36-42 [1092]	atoms, elementary particles, electron, neutron, matter, structure of
insulin, automatic synthesis, amino acids, peptide bond, 'solid phase'	'ordinary matter' 1967 May p 126-134
method of synthesis, polystyrene beads 1968 Mar p 56-74 [320]	mesons, particle accelerator, pions, quark, high energy physics,
rod cells, cone cells, visual cells, autoradiography, renewal mechanisms	nucleons, Regge trajectory, high-energy scattering
in rating calls 1970 Oct p 80-91	1967 Dec p 76-91
chloroplast mitochondria, symbiosis, cell organelle, DNA, prokaryole	alpha clustering, alpha particles, atomic nucleus, elementary particles, nuclear clustering, neutron, nuclear forces, nuclear surface
organ plactide cell evolution, extra-nuclear geneue activity in cen	1972 Oct p 100–108
1970 Nov p 22–29 [1203]	antimatter, high-energy physics, colliding-beam accelerator, electron
antibiotics, actinomycin, DNA-actinomycin binding, mRNA inhibition 1974 Aug p 82-91 [1303]	positron annihilation, parton model, quantum electrodynamics
DNA, genetic code, poliomyelitis virus, RNA, virus multiplication,	1973 Oct p 104-113
17/3 1/14/ 1/ 47-34	not elementary 1951 May p 32
and recentors, endocrine hormones, gene regulation, normonal action,	proton acceleration, by electron rings 1968 Sept p 84 proton accelerator, CERN-USSR joint project 1968 Sept p 84
(9/0 100 0 32 73 133)	proton beam, particle accelerator, National Accelerator Laboratory
steroid normones cell structure, neutron-beam-scattering technique, ribosome, structure 1976 Oct p 44-54	neutrino beam, synchrotron 1974 Feb p 72-83
	proton-beam focusing, electromagnetism, mobium alloys magnetism,
of ribosome tRNA, gene transcription, molecular structure, 3-D structure of tRNA 1978 Jan p 52-62 [1377]	superconductors, generation of intense magnetic fields
sRNA and amino acid template positioning 1962 Sept p 108	1967 Mar p 114-123
	proton currents, in nerve cells 1951 July p 31 proton decay, transmutation 1970 Dec p 40
ergosome 1964 Apr p 64 origins of life, thermal theory of biological origins 1965 Aug p 44	proton magnetic moment, determined with new precision
solid-phase synthesis	1949 May p 26
initiation formylmethionine 1968 Sept p. 86	proton model, high-energy physics, neutron structure, quark, scattering
	experiments, 'strong' force, virtual particles 1971 June p 60-77
ribosome, cell organelle, RNA, structure of the Hoosen	proton-proton interaction, thermonuclear reaction, carbon cycle, stellar energy 1950 Jan p 42-45
to a labo balay enzyme catalysis, lock-	heat, thermonuclear reaction, stellar interiors, hydrogen bomb, solar
proteins, amino acids, peptide chain, aipina neus, cui sa protein made? 1953 Sept p 100-106 and-key theory, how is a protein made? 1953 Sept p 100-106	corona, helium reaction, ultrahigh temperatures
polypertide chain, amino acids, hydrogen total tuly p. 51–59 [31]	1954 Sept p 144-154
crystallography, alpha helix	colliding beam accelerator, high energy physics, particle interaction, CFRN 1973 Nov p 36-44
•	CERN 1973 Nov p 36-44

coton size, findings in particle accelerators 1973 May p 42	schizophrenia, psychotherapy, shock therapy, psychosurgery, the case
roton spin, spin, high-energy physics, 'strong' force, electron scattering,	for psychotherapy 1953 Jan p 58-63 [447
dependence of nuclear forces on spin 1966 July p 68-78	suicide, epidemiology 1954 Nov p 88–96
time reversal, symmetry, parity, charge conservation, lambda decay,	LSD, ergot, psychosis, experimental psychoses 1955 June p 34-39
CPT conservation, experiments in time reversal 1969 Oct p 88–101	humor, psychiatry, laughter, psychosis, Freudian interpretation of
roton structure, probed by electrons 1953 Oct p 50	humor 1956 Feb p 31–35 [435
roton synchrotron, USSR. 10Bev synchrotron 1957 June p 72	child psychiatry, autism, schizophrenia, emotional deprivation, 'mechanical boy' 1959 Mar p 116-127 [439
CERN, USSR, US plans 1970 Aug p 44	'mechanical boy' 1959 Mar p 116-127 [439 'truth' drugs, psychoacuve drugs, psychiatry, emotional illness, clinical
roton transfer, chemical reaction, chemical kinetics, allosteric enzymes,	use of psychoactive drugs 1960 Mar p 145–154 [497
enzymes, catalysis, chemical equilibrium, relaxation methods in chemistry 1969 May p 30-41	schizophrenia, emotional illness, psychiatry, psychosis, neurosis,
chemistry 1969 May p 30-41 protoplasts, bacterial-cell wall, lysozyme, homeostasis, bacterial	double bind, taxonomy of emotional illness, family therapy
cytoplasm, bacteriophage, flagella, dissection of bacteria by	1962 Aug p 65–74 [468
lysozyme 1960 June p 132–142	community mental-health centers, mental health, emotional illness,
protopsychology', planarian, learning, conditioned behavior, maze	psychiatric hospital population, psychoactive drugs, psychotherapy,
running, evidence of learning in a primitive nervous system	psychiatry 1973 Sept p 116-127
1963 Feb p 54-62	psychological research, S6 multion at Yale 1953 Apr p 44
protostars, light polarization, interstellar dust, interstellar gas	psychological testing, psychology, perception, science, psychology 1900-
1967 Oct p 106-114	1950 Sept p 79-84
microwaves, interstellar matter, maser, hydroxyl radical, infrared	scientists, socioeconomic background, social psychology, psychological
astronomy, energy levels, interferometry 1968 Dec p 36-44	study of 64 eminent scientists 1952 Nov p 21-25 creativity, psychology, imagination, psychology of imagination
protozoon, cell differentiation, regeneration, embryonic development,	1958 Sept p 150-166
Freedom and the control of the contr	achievement, motivation, aspiration, social surveys, self-anchoring
provirus, virus, life cycle, reproduction, bacteriophage 1954 Mar p 34-37	scale 1963 Feb p 41–45
bacteriophage, virology, recombinant DNA, modified virus	see also intelligence test
1955 Apr p 92–98 [24]	psychology, psychological testing, perception, science, psychology 1900-
bacteriophage structure, gene expression, latent viruses, virus action,	1950 Sept p 79-84
coexisting viruses, viral genes in host chromosome	instrument panel, pilot error, ergonomics, designing instrument panels
1976 Dec p 102-113 [1347]	for their users 1953 Apr p 74-82 [496]
pseudoscience, university research, ESP, kirlian photography, astrology at	conditioned reflex, neurosis, operant conditioning, Pavlov,
Iowa State 1978 Apr p 78	thyroidectomy, stress, emotional behavior, neurosis, conditioned
psi particle, antimatter, electron-positron annihilation, J particle, charm,	reflex is shown to be a neurosis 1954 Jan p 48-57 [418]
color, quark, high-energy physics, storage rings, virtual particles 1975 June p 50-62	economics, economic psychology 1954 Oct p 31-35 [452] learning, spatial perception, innate behavior, perceptual learning,
psychiatric hospital population, community mental-health centers, mental	innate vs acquired space perception 1956 July p 71-80
health, emotional illness, psychoactive drugs, psychotherapy,	probability, decision making, subjective probability, Monte Carlo
psychiatry, psychoanalysis 1973 Sept. p 116–127	fallacy, gambling, subjective and objective probability
psychiatry, motion pictures, psychiatric films in teaching and therapy	1957 Nov p 128-138 [427]
1949 Sept p 42-43	creativity, imagination, psychological testing, psychology of
group psychotherapy, emotional illness 1950 Dec p 42-45 [449]	imagination 1958 Sept p 150–166
psychoanalysis, humor, laughter, psychosis, Freudian interpretation of	pain, perception, neuropsychology, cultural influence on pain
humor 1956 Feb p 31-35 [435] ACTH, war, stress, combat fatigue, Korean war studies of battlestress	perception 1961 Feb p 41-49 [457] auditory illusions, hearing, perception, phonetics, speech perception,
1956 Mar p 31-35	illusions, illusions as clues to organization of perceptual apparatus
anesthesia, pain, cocaine, procaine, surgery, medical research,	1970 Dec p 30–33 [531]
neuropharmacology, pharmacology, research in pain suppression	art, Escher's prints, optical illusion, perception of pictures, visual
1957 Jan p 70-82	perception 1974 July p. 90-104 (560)
'truth' drugs, psychoanalysis, psychoactive drugs, emotional illness,	sports, footracing, human physiology, athletics, metabolism, running
clinical use of psychoactive drugs 1960 Mar p 145-154 [497]	records, Aesop principle 1976 June p. 109-119
schizophrenia, emotional illness, psychoanalysis, psychosis, neurosis,	learning, effect of delayed video feedback on maze solving
double bind, taxonomy of emotional illness, family therapy 1962 Aug p 65-74 [468]	rationalizing the threat of thermonuclear horror 1963 Feb p. 70
community mental health centers, mental health, emotional illness,	rationalizing the threat of thermonuclear horror 1963 Feb p 70 see also behavioral psychology and the like, ethology, learning,
psychiatric hospital population, psychoactive drugs, psychotherapy,	perception and the like
psychoanalysis 1973 Sept p 116-127	psychopathology, psychoanalysis, murder, 'prevention of murder'
poorly funded 1952 Nov p 40	1949 June p. 50-55
manpower shortage 1957 May p 70	psychophysics, learning, visual perception, Fechner's law, Skinner box,
clinical trials of Marsilid 1958 Apr p 52 civil rights in New York Iaw 1964 June p 54	behavioral psychology, conditioned behavior, pigeon perception
psychoactive drugs, anthropology, medicine, magic, alkaloids, hypnosis	1961 July p 113–122 [458]
psychiatry, lessons from primitive medicine 1948 Sept p 24–27	muscle control, muscle spindles, sensory feedback, servomechanisms, stretch reflex, tendon organ 1972 May p. 30-37 [1240]
tranquilizers, chlorpromazine, reservine, Frenquel 1955 Oct p 80-86	stretch reflex, tendon organ 1972 May p 30-37 [1249] psychosis, Hutterites, mental health, standard expectancy method,
truth' drugs, psychoanalysis, psychiatry, emotional illness, clinical use	epidemiology 1953 Dec. p. 31_37 [A40]
of psychoactive drugs 1960 Mar p 145-154 [497]	emotional illness, mental health, schizophrenia, epidemiology, family,
community mental-health centers, mental health, emotional illness,	income status 1954 Mar n 38 12 14411
psychiatric hospital population, psychotherapy, psychiatry, psychoanalysis 1973 Sept. p. 116–127	LSD, ergot, psychoanalysis, experimental psychoses
psychoanalysis 1973 Sept p 116-127 emotional illness, community mental-health centers, skid row, drug	1955 June p 34-39
addiction, 'deinstitutionalization' of the emotionally ill	psychoanalysis, humor, psychiatry, laughter, Freudian interfection of humor
1978 Feb. n. 4653 [581]	humor 1956 Feb p 31–35 [435] schizophrenia, emotional illness, psychoanalysis, psychiatry, neurosis,
psychoanalysis, Oedipus complex, emotional illness 1949 Jan p 22-27	double billion laxonomy of emotional illnace formula, et and
dreams, Freud 1949 May p 44-47 [495]	1067 Aug = 65 74 [460]
murder, psychopathology, 'prevention of murder' 1949 June p 50-55 Freud, biography and appraisal of Sigmund Freud at 82	manious, national opens, mental health drug addiction conservation
19.10 Oct n 50 5.1	anteration, LSD, pshocyoin, mescaline, effects of LSD
schizophrenia, art, a case study 1952 Apr p 30–34	1964 Apr p 29–37 [483]

psychosomatic illiess, stress, alarm reaction, kidney disorder,	despergation recollenters and the second
cardiovascular disease, adrenal gland 1949 Mar p 20-23	desegregation, racial integration, attitude survey, U.S. whites,
stress, tiect, executive monkey experiment 1958 Oct n of the	on standard attitude study reported in 1956
an dety, polygraph, lying, guilt, breathing, pulse rate, skin temperatur	
'he detector' mis-named 1967 Jan p 25–31 [50	
coping behavior, rats, stress 1972 June p. 104-113 154	American Negro, 'riffraff theory' versus 'blocked opportunity'
coping behavior, rats, stress 1972 June p 104-113 [54 psychosurgery, prefrontal lobotomy, after 5,000 operations in the U S, a	71 theory 1968 Aug n 15-21 (629)
evaluation 1950 Eth 44 47 144	
	11 decomposition 1
schizophrenia, psychotherapy, psychoanalysis, shock therapy, the case	allittide survey longitudinal attitudes and.
for psychotherapy 1953 Jan p 58_63 Ida	an and an out of the great artifacts study
outlawed in USSR 1953 Oct n 6	17/1 1266 11 13-1910/11
psychotherapy, neurosis, learning, stress, experimental neuroses in cats	o mescapatic
1950 Mar p 38-43 [44]	1976 June p 21–27 [689]
'client-centered' therapy 1952 Nov n 66-74 1449	
schizophrenia, psychoanalysis, shock therapy, psychosurgery, the case	whites, segregation, integration, longitudinal attitude study
for psychotherapy 1953 Jan p. 58-63 144	1978 June p. 42-49 [707]
for psychotherapy 1953 Jan p 58-63 [44]	/I reliability questioned 1968 Jan p 46
community mental-health centers, mental health, emotional illness,	public sector, employment, pluralistic economy, private enterprise sector,
psychiatric hospital population, psychoactive drugs, psychiatry,	productivity, U.S. economy, not-for-profit sector
psychoanalysis 1973 Sept p 116-12	7 1976 Dec p 25-29
training to overcome shortage 1949 Jan p 2	
for recidivists 1951 Apr p 3	
in groups 1952 Mar p 43	
552 Mar p 4	1740 DCC p 12 17
Dielen	The state of the s
301 p 12	
puberty, see adolescence	Puerto Ricans, racial discrimination, segregation, American Negro,
public funds, medical economics, medical care, municipal hospitals,	housing, poverty 1965 Aug p 12-19 [626]
voluntary hospitals, proprietary hospitals, metropolitan medical	Pugwash conference, disarmament, nuclear test ban 1957 Sept p 106
economics in New York City 1965 Jan p 19-27	nuclear warfare 1958 Dec p 52
public health, tuberculosis, tubercle bacillus, mortality rates, economic	talks continue as testing resumes 1961 Nov p 78
development, science history, popularization of well-being, not	pulmonary ventilation, gas exchange, thorax, lung, breathing, alveoli,
therapy, ends 'white plague' 1949 Oct p 30-41	
epidemiology, immunology, virology, influenza virus, structure and	60,
	breathing, anatomy of lung 1966 Feb p 56-68 [1034]
biochemistry of flu virus 1957 Feb p 37–43	4.00
environmental pollution, ionizing radiation, fallout, atomic bomb test,	momentum, 'lighthouse' model proposed 1968 Oct p 25-35
radiation damage, mutation, hazards of radiation to society	Crab Nebula, neutron stars, radio source, stellar evolution,
1959 Sept p 219-232 [1214]	gravitational collapse, angular momentum 1971 Jan p 48-60
Chaga's disease, 'zoonoses', parasitism, trypanosomiasis, malaria,	gravitational collapse, neutron stars, stellar evolution, solid stars, white
filanasis, leishmaniasis, plague, yellow fever, typhus, epidemiology,	dwarfs, ultradense matter 1971 Feb p 24-31
animal infection and human disease 1960 May p 161-170	cosmic radiation, radio emissions, superdense matter, supernovae
bronchitis, air pollution, emphysema, smog, environmental health, US	1971 July p 74-85
cities, smog and public health 1961 Oct p 49-57 [612]	black hole, gravitational waves, neutron stars, relativity theory, Red
epidemiology, human behavior, bubonic plague, Black Death,	Giant stars, rotational energy, white dwarfs 1972 May p 38-46
population history, long-term effects of plague, Europe 1348-50	binary stars, neutron stars, black hole, quasars, X-ray astronomy, X-
1964 Feb p 114–121 [619]	ray sources 1972 July p 26-37
morbidity, medical care, health statistics, mortality rates, health	black hole, gravitational energy, quasars, rotational energy, radiation in
	universe 1973 Feb p 98-105
insurance, U.S. National Health Survey 1966 June p 21–29	black hole, interstellar gas, magnetohydrodynamics, neutron stars,
noise-induced hearing loss, occupational health, noise pollution,	stellar evolution supernovae, X-ray sources 1975 Dec p 38-46
auditory impairment, industrial hygiene, preventing noise-induced	
hearing loss, US noise pollution legislation	black hole, cosmic radiation, gamma-ray astronomy, neutron stars, satellite astronomy, Cygnus X-1 1976 Oct p 66-79A
1966 Dec p 66-76 [306]	
abortion, population, birth control, infant mortality, maternal	
mortality, international comparison of experience with legalization	light source tentatively identified 1968 July p 49
of abortion 1977 Jan p 21-27 [1348]	rotating neutron star (?) 1968 Dec p 50
environmental pollution, fission reactor, nuclear power, radioactive	NP 0532, optical flashes in Crab Nebula 1969 Mar p 46
waste disposal, underground storage 1977 June p 21-31 [364]	speedup, starquake 1970 Feb p 44
improved 1952 May p 37	pulsar in Crab Nebula, supernova remnant 1969 Jan p 46
11 S mock TB enidemic 1956 July p 50	X-ray and optical pulses 1969 July p 52
Russey appointed Surgeon General 1956 UCL p 07	pulse-code modulation, artificial satellite communication,
US infant mortality statistics 1960 July p 81	telecommunication, data transmission, digital transmission
little correlation between crowding and disease 1973 Aug p 47	1966 Sept p 144-156
111 maior election fiesco 1948 1948 Dec D 7-11	communication technology, digital transmission, binary anthmetic
A serior and deargo attitude curvey social discrimination, sociology,	television, transmission quality, telephone, AM, FM
studies of attitudes and morale of U S troops during World War II,	1968 Mar p 102–108
including experiments in racial integration of military units	communication technology, laser, electron optics, Kerr effect, Pockel's
including experiments in facial integration of 1949 May p 11–15	effect, polarization, modulators, modulation of laser light
voters' attitudes, voting behavior, correlation analysis, ethnic groups,	1968 June p 17-23
voters' attitudes, voting behavior, correlation analysis,	digital transmission, diode laser, fiber optics, glass fiber cables, light-
income, social status, family, 'votes in the making'	emitting diode, light-wave communication, lightwave telephone
	1977 Aug. p 40~48 [373]
mass communications, elections, attitude survey 1953 May p 46–48	pulse generator, streamer chamber, linear accelerator, track detectors
elections, voting behavior, attitude survey, election of 1952 1954 May p 31-35	new particle detector 1967 Oct p 38-46
	pulse rate, anxiety, polygraph, lying, psychosomatic illness, guilt,
fluoridation, anti-scientific attitudes, voting behavior [1955 Feb p 35-39 [453]	breathing, skin temperature, lie detector mis named
American Negro, U.S. whites, desegregation, attitude survey, racial	1967 Jan p 25–31 [503]
TIC whose desegrecation, attitude survey, racial	
American Negro, U.S. whites, descriptions, and study segregation, sociology, longitudinal attitude study	pumpkin prodigy, 1,986 ft vine, 20 pumpkins 1952 July p 42

pumps, steam engine, mine drainage, technology history, Watt, Industrial	quantum fields, field theory, high-energy physics, Classical physics,
Revolution, Newcomen engine, origins of steam engine	elementary particles, with 20 particles known, a review of the theoretical foundations of physics 1953 Apr. p. 57-64 [208]
1964 Jan. p. 98–107	quantum fluids, superfluidity, helium 3, liquid phase, gas phase, solid state
science history, technological innovation, windmills, blast furnace, bellows, medieval technology, medieval uses of the air	physics, quantum effects, phase transitions 1976 Dec. p. 56–71
1970 Aug. p. 92–100 [336]	quantum jumps, radar, microwaves, spectroscopy, molecular bonds,
punched cards, Bacon's cipher, binary code, Boolean algebra, computer	coherent radiation, resonance absorption, energy levels, quantum
history, science history, Jacquard loom 1972 Aug. p. 76–83	electrodynamics, time-keeping, foundation of maser, laser
nunishment, asocial behavior, behavioral psychology, criminal law,	technology 1948 Sept. p. 16–23
human behavior, criminology, milieu therapy, behavioral science and	quantum mechanics, Planck, science history, spectroscopy, black body,
the criminal law 1963 Nov. p. 39-45 [480]	resonators, Einstein, photoelectric effect, Compton effect
pupa, insect metamorphosis, juvenile hormone, larvae, demonstration of	1952 Mar. p. 47–54 [205]
hormonal control in silkworm moth 1950 Apr. p. 24-28	matter, wave-particle duality, energy levels, electromagnetic force, nuclear forces, gravitation, field theory, fundamental research,
pupil size, emotion, attitude, eye, attention, effect of attitude on pupil size	corpuscular streams, what is matter? 1953 Sept. p. 52–57 [241]
1965 Apr. p. 46-54 [493] communication, eye, nonverbal communication, effect of pupil size on	optical pumping, microwave spectroscopy, spectroscopy, photon,
attitude 1975 Nov. p. 110–119 [567]	technique and uses of optical pumping 1960 Oct. p. 72–80
pure metals, metallurgy, crystal structure, zone melting, vacuum furnace	quantum mechanics, special relativity, atomic structure, high-energy
1954 July p. 36–40	physics, science, physics 1900-1950 1950 Sept. p. 28–31
pure strategy, games theory, uncertainty principle, decision theory,	Planck, science history, spectroscopy, black body, resonators, Einstein,
probability, card games illustrate theory 1951 Jan. p. 44-47	photoelectric effect, Compton effect, quantum jumps
games theory, decision theory, minimax, mixed stratgey, worst-case	1952 Mar. p. 47–54 [205]
analysis 1955 Feb. p. 78-83	heat, thermodynamics, entropy, equation of state, energy, black body
Purex process, fission reactor, nuclear fuel, nuclear power, reprocessing	radiation, temperature, What is heat? 1954 Sept. p. 58-63 superfluidity, helium 1, helium 2, seond sound, low-temperature
1976 Dec. p. 30-41	physics, liquid helium properties 1958 June p. 30-35 [224]
Purkinje cells, brain, brain circuitry, cerebellar cortex, neuronal networks, mossy fibers 1975 Jan. p. 56–71 [1312]	maser, microwave amplification, stimulated emission, coherent
networks, mossy fibers 1975 Jan. p. 56-71 [1312] purple bacteria, phototropism, photosynthesis, sulfur bacteria	radiation, principles and uses of maser 1958 Dec. p. 42–50 [215]
1951 Nov. p. 68–72	atom, Pauli, exclusion principle, theoretical physics, antimatter,
purpoises, fish, swimming, laminar flow, turbulence, how fishes and sea-	structure of atoms and nuclei 1959 July p. 74-86 [264]
going mammals swim 1957 Aug. p. 48–54 [1113]	gravitation, wave-particle duality, relativity theory, space-time
purpura, congenital anomalies, virus disease, vaccine, teratogenesis,	continuum, uncertainty principle, P.A.M. Dirac view of physics
pregnancy, congenital rubella, rubella 1966 July p. 30-37	1963 May p. 45–53
Pygmies, Congo, social anthropology, Bambuti, symbyotic relationship of	chemical bond, noble gases, compounds of 'inert elements' 1964 May p. 66-77
jungle Pygmies and pastoral-village peoples 1963 Jan. p. 28–37 [615]	superfluidity helium, vortex ring, macroscopic quantum effects,
pyrogenesis, aromatic hydrocarbons, molecular structure, polycyclic	quantized vortex rings 1964 Dec. p. 116–122
aromatic compunds 1976 Mar. p. 34-45	superconductors, Meissner effect, magnetic field, magnetic
pyrolysis, fire, fire protection, 'flashover', flammability standards	impermeability, quantized vortexes, quantum effects in
1974 July p. 21–27	superconductors 1965 Oct. p. 57–67
pyrophoricity, flammable metals 1957 Mar. p. 64	electric current, Josephson effects, superconductivity, microwave
pyruvic acid, see: citric-acid cycle Pythagorean doctrine, musical scale, tone ladder, music and mathematics,	emission, tunnel junction, confirmation and applications of Josephson effects 1966 May p. 30-39
harmonic proportions, Kepler, vibrating string 1967 Dec. p. 92-103	Josephson effects 1966 May p. 30–39 electrical conductivity, Fermi surface, semiconductor, materials
Pythagorean theorem, time, special relativity, clock paradox	technology, charge carriers, electron mean free path, electrical
1963 Feb. p. 134-144	properties of materials 1967 Sept. p. 194-204
1,700 years before Euclid 1950 Mar. p. 28	atomic nucleus, atomic structure, exotic atoms, kaonic atoms, muonic
	atoms, particle accelerator, pions, high-energy physics
	1972 Nov. p. 102–110
()	crystal energetics, crystal structure, metallurgy, conduction electrons,
$\boldsymbol{\mathcal{L}}$	quasi-particle concept, Fermi surface, metal properties 1973 Jan. p. 88-98
quackery, 'radioactive' nostrums 1949 Oct. p. 27	Kerr gate, laser mode-locking, molecular motion, Raman clock,
quality control, statistical sampling, sequential analysis, probability	ultrafast phenomena, picosecond molecular processes
1953 Mar. p. 29–33	1973 June p. 42–60
quantized vortexes, superconductors, Meissner effect, quantum	hadrons, heavy leptons, J particle, high-energy physics, quark
mechanics, magnetic field, magnetic impermeability, quantum effects in superconductors 1965 Oct. p. 57-67	hypothesis, intermediate vector bosons 1976 Jan. p. 44–54
quantum, elementary particles, parity, 'weak' force, symmetry, particle	electromagnetic radiation, photon, Coulomb's law, mass of photon
interaction, right and left-handed particles breakdown of parity	1976 May p. 86–96 electromagnetic radiation, electron-hole liquid, exciton, semiconductor
1957 Apr. p. 45–53 [231]	1976 June p. 28–37
quantum chemistry, molecular structure, electron shells, computer	black hole, gravitational fields, relativity theory, event horizon
modeling, molecular orbits, computer graphics 1970 Apr. p. 54-70	1977 Ian n 34-40 (349)
quantum effects, superconductivity, magnetism, magnetic vortexes, superconductors, macroscopic quantum effect photographed	isotope separation, laser-excitation technique, light absorption,
1971 Mar. p. 74–84	uranium enrichment 1977 Feb. p. 86–98 [354] amorphous semiconductors, nonperiodic systems, Ovshinsky devices,
superfluidity, helium 3, liquid phase, gas phase, solid state physics,	semiconductor technology, switching phenomena
quantum fluids, phase transitions 1976 Dec. p. 56–71	1977 May n 36, 49 (262)
quantum electrodynamics, radar, microwaves, spectroscopy, molecular	aikau-metal anions, alkali-metal cations, cryptands, electron orbitals
bonds, coherent radiation, resonance absorption, energy levels, quantum jumps, time-keeping, foundation of maser, laser technology	solvated electrons 1977 July n 92 105 (269)
1948 Sept. p. 16–23	charmed quarks, hadrons, high-energy physics, quark, charm
positronium, positron, electron, 'model atom' 1954 Dec. p. 88_92	maser, cosmic masers, hydroxyl maser, water maser, maser star,
antimatter, high-energy physics, colliding-beam accelerator, electron-	interstellar matter, astrophysics, 'nature imitates art'
positron annihilation, proton, parton model 1973 Oct. p. 104-113	1978 June p. 90–105
	105 June p. 90–105

quantum numbers, baryons, high-energy physic	s hadrons lanta-	-
mesons, quark commement, dag model, in	frared-slavery model	Quechua Indians, brown fat, altitude adaptation, acclimatization, deer
sum inguite	1076 Nov 40 C	n the transform, inerapone rate, exercise, human physiology at
quantum solid, crystal structure, helium, solid s	late physics recommend	nigh autibute 1970 Feb p 52-62 [1168] queen substance, phoromones, insect physiology, sexual behavior,
motion, solid helium, physical and theoreti	leal properties	
quark, mesons, particle accelerator, pions, proto	1967 Aug p 84-99	1963 May p 100-114 [157]
nucleons. Regge trajectory, high-energy sci	attering	sexual development 1956 Apr p 66
	1967 Dec - 76 as	queues, traffic, mathematics, operations research, computer time shaning applications of queuing theory 1968 Aug p 96-103
high-energy physics, proton model, neutron s experiments, 'strong' force, virtual particles	tructure, scattering	Quick clay clay laudelide formation and management at a
dual-resonance model, high-energy physics, h	1971 June p 60-77	1963 Nov p 132-142
ineory, strong interactions	1975 Feb n 61.67	quicksand, fluidized sand, alkali bog 1953 June p 97-102
antimatter, electron-positron annihilation, I p	article, osi particle	quinary system, mathematics, geometry, topology, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44-49
charm, color, high-energy physics, storage i	rings, virtual particles	quinine, alkaloids, plant physiology, morphine, strychime, 'hemlock',
charmed quarks, hadrons, high-energy physics	1975 June p 50-62	physostigmine, calleine, conune, cocaine, ricinine, LSD, human
CHATH	1977 Oct n 5670 (200)	toxins in plant physiology 1959 July p 113-121 [1087] Qumran site, Dead Sea scrolls, Judaism, New Covenanters, Biblical
high-energy physics, 'S U (3)' extended by 'S	U (6) 1965 Mar p 52	archeology 1971 Nov n 72-81
strangeness and charm lurking in 'jets' from particle collisions?	1975 July p 45	S.C.No. y
quark confinement, baryons, high-energy physics	1978 Feb p 84	•
mesons, quantum numbers, bag model, infri	ared-slavery model	R
string model	1976 Nov p 48-60	A.\
models	1976 July p 60	rabbit plague, myxomatosis, Australia, pest control 1954 Feb p 30-35
quark hypothesis, charmonium, charmed quarks, gauge theory, hadrons, leptons, 'color' and '	high-energy physics,	Australia uses myromatosis 1952 Sept. p 78
	1975 Oct p 38~50	raddits, fleas, parasitism, host parasite relationship, hormone estrus, adaptation, the rabbit flea and rabbit hormones
hadrons, heavy leptons, J particle, high-energy	physics, quantum	1965 Dec p 44-53 [1027]
mechanics, intermediate vector bosons	1976 Jan p 44-54	communication, territorial behavior, pheromones, scent glands,
in 18th century quark in trouble, hadron/muon ratio	1976 Nov p 70 1974 Aug p 46	pecking order, territorial marking by rabbit 1968 May p 116-126 [1108]
quark proliferation, a fourth and a lifth	1977 Oct p 74	race, Rh factor, human evolution, Rh negative gene, Ro gene, blood
quartz, piezoelectricity, crystal structure, ultrason	uc transducer, nature	typing 1951 Nov p 22-25
and uses of prezoelectricity quasar 3C147, most distant object in space	1949 Dec p 46-51 1964 May p 59	anthropology, human evolution, steatopygia, chimate, human
quasars: quasi-stellar objects	1304 May p 33	mugration, population, geneue variation, ancient migration and human diversity 1960 Sept. p. 112-127 [604]
quasars, radio source, radio astronomy, occulation		intelligence, whites, IQ, heredity, American Negro, heredity,
fixing of radio-source position, occulation by	moon 1966 June p 30-41	population genetics, science policy, social psychology, twins, environment, racial discrimination 1970 Oct. p. 19-29 [1199]
cosmic radiation, radio galaxies, galactic balo, i		human population, genetic drift, population genetics, serum protein
source, extragalactic radio source as origin of	cosmic rays	analysis 1974 Sept p 80-89
spectroscopy, recession velocity, cosmological d	1966 Aug p 32-38	racial discrimination, blood typing, Judaism, religious persecution, social evolution, genetic drift, population genetics, Jewish community of
whether quasars are intra- or extra-galactic	notanee, rea amit,	Rome 1957 Mar p 118-128
1:	966 Dec p 40-52 [305]	cultural anthropology, genocide, Tasmanians, Yumbn, Yamana,
cosmological distance Seyfert galaxies, galactic nucleus, radio emission	1967 Dec p 49~50 1 1969 Jan p 28~37	vanishing primitive cultures 1957 May p 39-45 uttes, social geography, American Negro, segregation metropolitan
spectroscopy, Doppler effect, red shift, shell hyp	othesis, radio source,	segregation 1957 Oct p 33-41
absorption lines clue to quasar structure	1970 Dec p 22-29	Amerindian, genocide, cultural assimilation, civil rights, persisting
cosmology, red shift, universe expansion binary stars, neutron stars, black hole, pulsar, X-	1971 May p 54-69	identity of Americalians 1960 Feb p 37-45 segregation, American Negro, Puerto Ricans, housing, poverty
sources	1972 July p 26-37	1965 Aug p 12-19 [626]
black hole, gravitational energy, pulsar, rotation	al energy, radiation in	black power, American Negro, group identity, economic power, ethnic
universe	1973 Feb p 98~103	groups, slavery, social deprivation 1967 Apr p 21-27 [633] ghetto, unemployment, urban nots, public opinion, social class,
galactic center, Milky Way, radio source, Sagitta galaxies, spiral galaxies	1974 Apr p 66-77	American Negro, 'riffraff theory' versus 'blocked-opportunity'
RI Lacertae objects, galaxies, radio astronomy		theory 1968 Aug p 15-21 [638]
19	77 Aug p 32–39 [372] 1964 Aug p 38	intelligence, race, whites, IQ, heredity, American Negro, heredity, population genetics, science policy, social psychology, twins,
hypotheses advanced some twinkle	1964 Nov p 58	environment 1970 Oct p 19-29 [1199]
solar wind and quasars' twinkle	1964 Nov p 58	adolescence, family, alienation, divorce, poverty, infant mortality, crime, suicide, drug addiction, changes in American family structure
recession speed and variability	1966 Feb p 50 1966 July p 54	[974 Aug p 53-61 [56]]
absorption lines	1968 May p 50	prejudice, American Negro, public opinion, attitude survey. US
diameters measured life expectancy short	1971 Jan p 47	whites, segregation, integration, longitudinal attitude study 1978 June p 42-49 [707]
BL Lacertae, an exploding galaxy	1974 May p 60 1976 Oct p 64	even in Brazil 1952 Nov p 48
red shift	icture, metallurgy,	technological unemployment, U.S. Black unemployment
quasi-particle concept, crystal elicigence, crystal conduction electrons, quantum mechanics. Fen		1967 Sept p 102 racial integration, desegregation, public opinion, attitude survey, U S
properties	1973 Ian p 88-98	whites, American Negro, longitudinal attitude study reported in
quasi-stellar objects, see quasars		1956 1964 July p 16-23 [623] desegregation, American Negro, US whites, attitude survey, public
quasi-stellar radio sources, see quasars quaternions, complex numbers, non-commutative al quaternions, complex numbers, non-commutative al	gebra, mathematics,	opinion longitudinal attitudes study 1971 Dec. p 13-19 [673]
high-energy physics, rightmon,	William Rowan 1954 May p 82–87	representative with the second control of th
Hanulton		

racial segregation, public opinion, American Negro, I desegregation, attitude survey, sociology, longitu	JS whites,	mutation, high-energy radiation, nuclear medicine, X-ray, no threshhold to biological damage by radiation
desegregation, attitude survey, sociology, iongro	1956 Dec p 35-39	1960 Apr p 142-153 [71]
US attitudes	1956 Oct p 66	DNA replication, ultraviolet radiation, mutation rate, thymine dimer, repair of DNA 1967 Feb p 36-43
effect of mass media on desegregation	1957 Nov p 77	repair of DNA 1967 Feb p 36-43 aging, free radicals, electron-spin resonance, chemical bond,
radar, microwaves, spectroscopy, molecular bonds, co	oherent radiation,	spectroscopy, effects of free radicals on living systems
resonance absorption, energy levels, quantum ju	mps, quantum	1970 Aug p 70–83 [335]
electrodynamics, time-keeping, foundation of m	1948 Sept p 16-23	radiation effects, on reactor materials 1954 Oct p 47
technology	1952 June p 64-65	radiation energy, celestial energy, cosmological 'hangups', energy cycle,
air transport, air traffic control microwaves, optical properties, Maxwell's equation	is traveling-wave	power, entropy per unit energy, gravitational energy, stellar
tube, klystron, magnetron, waveguides, commun	ication	evolution, thermonuclear energy 1971 Sept p 50-59 [662]
tube, kryshon, magnetion, waveguides, some	1952 Aug p 43-51	biosphere, energy cycle, photosynthesis, respiration, power, solar
weather observation, cloud structures	1953 July p 34-38	radiation, terrestrial radiation 1971 Sept p 88-100 [664]
microwaves, klystron, particle accelerator	1954 Mar p 84-90	radiation exposure, permissible limits reduced 1960 Nov p 91
hurncanes, typhoons, meteorology	1954 June p 32-37	radiation hazards, 'atoms for peace', gene mutation, safety standards,
airport, air traffic control, transportation industry	1960 Dec p 47-55	Geneva biology 1955 Oct p 38-42
solar system, astronomical unit, space exploration,	, Venus probes,	radiation pressure, light, sound wave pressure, photophoresis, analogy
Doppler effect, Earth-Sun distance more precise	ely measured	and distinction, light- and sound-wave pressure 1957 June p 99-108
	1961 Apr p 64-72	gas separation, laser, laser-light pressure, isotope separation, 'optical
aerial mapping, aerial photography, airborne rada	r, all-weather	bottle', atomic and molecular beams 1972 Feb p 62-71
imaging, radar holography, side looking radar	77 Oct p 84-95 [386]	radiation safety, A E C report 1950 Sept p 46
	1957 Oct p 56	radio, communication, frequency modulation, Armstrong, life and work
advances in technology 'angel' activity	1959 Mar p 66	of Edwin H Armstrong 1954 Apr p 64-69
side-looking radar surveys of vegetation	1967 Aug p 40	radio telescope, interferometry, helical antenna 1955 Mar p 36-43
for taxing airplanes	1972 Jan p 52	Earth magnetic field, lightning, ionosphere, 'whistlers', radio echoes of
radar astronomy, radio telescope, solar system, radio	astronomy, steerable	lightning 1956 Jan p 34-37
600 ft telescope	1960 Jan p 45-51	communication technology, ionosphere, microwave transmission,
interferometry, solar system, moon, planets, ionos	sphere, technology	troposphere, ionospheric and tropospheric scattering
and promise of radar astronomy	1960 Aug. p 50-59	1957 Jan p 46–51
Doppler effect, planetary motion, delay-Doppler		science history, electromagnetism, 'Hertzian' waves, electromagnetic
Venus, microwaves	1968 July p 28-37 1959 May p 74	spectrum, Heinrich Hertz biography 1957 Dec p 98–106 artificial satellite, communication satellite, telecommunication, orbital
first radar echoes from Venus unambiguous radar echoes from Venus	1961 May p 82	motion, Echo II satellite, satellite communication systems,
radar blackout, atomic warfare, arms race, counterfo		consideration of alternatives 1961 Oct p 90-102
ICBM, US ABM system capabilities and limi		triode, De Forest, vacuum tube, Marconi, Fleming valve, diode,
	1968 Mar p 21-31	rectification, De Forest's 1906 contributions 1965 Mar p 92-100
radar domes, building construction, pneumatic buil	dings, construction	rectification, thermionic tube, diode, Fleming, electron tube, history of
technology	1956 June p 131-138	science, England, Edison, lamps, Deforest 1969 Mar p 104-112
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weather imaging, radar, side looking radar 19	177 Oct p 84-95 [200]	switching, multiplexing, network theory, communication, telephone
radar pioneer, \$140,000 for Watson Watt radar tracking, tornadoes, meteorology, thermal up	1952 Mar p 38	systems, television systems 1972 Sept p 116–128 communication, bouncing microwaves 1955 Sept p 69
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	69 Mar p 54-64 [877]	1949 Sept p 34-41
see also high energy radiation, X-ray radiation belts, artificial satellite, solar particles, co	como endiation	hydrogen, interstellar matter, 21-centimeter line 1953 Dec p 42-46 Milky Way, spiral galaxies, interstellar hydrogen 1955 May p 42-48
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mapping of radiation belts by Explorer satelli		structure of nearest galaxies 1956 Apr p 52-58
19	59 Mar p 39-47 [248]	galaxy, interstellar hydrogen, radio star, the radio sky
artificial satellite, geomagnetism, Lorentz force,	magnetosphere, solar	1956 July p 32-37
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tadiation okemistry	1963 May p 84-96	of astronomy 1956 Sept p 125-134
radiation chemistry, ammonia, solvated electrons, i sodium, alkali metals	1967 Feb p 76–83	spectroscopy, hydrogen, absorption line, interstellar matter, 21- centimeter wave absorption 1957 July p. 48-55
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work	1950 July p 40-43	station, satellite tracking 1958 Jan p 23-29
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radiation, leukemia, immune response, fallou		mapping the local Galaxy 1959 Aug n 44-51 (250)
whole body irradiation	1959 Sept p 117-137	galaxy, spiral arms, interstellar hydrogen, mapping the spiral arms of
envitonmental pollution, ionizing radiation, fall mutation, public health, hazards of radiation	out, atomic domo test,	the local Galaxy 1959 Dec p 92-104
	Sept p 219-232 [1214]	radio telescope, solar system, radar astronomy, steerable 600 ft telescope
chromosome breakage, ionizing radiation, muta	tion, cytology.	telescope 1960 Jan p 45-51 Jupiter, Venus, solar system, planets, measuring planetary surface
radiation damage to living cell [1	959 Sept p 94-100 [57]	temperature 1961 May n 58 65
cancer therapy, nitrogen mustard, carcinogenes	is, mutation, nuclear	galactic evolution, interstellar hydrogen, microwaves, hydrogen in
medicine, chemical imitation of radiation inju		galaxies correlated with their structure 1963 tune n 04 104
	1960 Jan p 99-108	red shift, radio galaxies, synchrotron radiation, lunar occultation,
		quasars found to be extra-galactic 1063 Dec 64 63
		descope, solar flares,
		definitive evidence of radiowaves from stars 1964 Aug. p 13-19

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source position, occuration by moon	1966 tuna - 20 4	cosmic radiation, radio galaxies, qu	uasars, galactic halo, radio
cosmic radiation, radio galaxies, quasars, gala	ctic halo radio ran-	astronomy, extragalactic radio s	ource as origin of cosmic rays
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	1966 Aug p 32-3	spectroscopy, Doppler effect, red s	hift, quasars, shell hypothesis,
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spectrographic technology	1960 Aug p 70	200 radio stars counted, some spec	cassiopera, garactic coursign, with
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diameter, orbit, velocity of Venus measured	1961 July p 67	galaxy, radio astronomy, interstellar	1953 Jan p 17-21
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	1955 June p 40-44	isotope dating, solar system, meteorites	s, Earth Crust, age of solar
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ouasars found to be extra-galactic	1963 Dec p 54-62	supernovae	1974 Jan p 69-77
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-	1966 Aug p 32-38	underground storage	1977 June p 21-31 [364]
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energy from gravitational collapse	1963 Mar p 78	science history, radioactive decay transi	mutation reception of newer
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1 1 1 to -1 h 4/979	1978 Apr p 78	radioautography, isotopes, molecular biology	, cylology use at
at Calary radio astronomy, solar radio of	nput, extragalactic	radioisotopes in biological research	1949 Feb p 30-41
radio map of Galaxy, radio astronomy, social radio waves, status and expectations of the new	astronomy	paisons, ionizing radiation, 'bone-seekers',	CHERRY SCINTINGHON COUNTER
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fixing of radio-source position, occurring	1966 June p 30-41	climate, dindrochronology Stonehenge 1848 B C ± 275 years	1952 July p 40
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1958 Dec p rainwater composition, carbon dioxide, neuston, marine life, nucrola	
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ram jet, flame chemistry, chemical kinetics, flash tube, heat, velocity	1949 May n 30-39
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1973 June p Raman laser effect, gas laser, solid-state lasers, diode junction laser,	42-60 reading, memory, visual search, visual scanning, information processing,
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rand tablet, cathode ray tube, computer technology, computer displ	ays, and words 1978 Ian 2 132 130 (133)
information theory, light pen, computer graphics, computer grand man-machine interface 1966 Sept p	reading machines, cluster seeking algorithms, pattern recognition.
random-coil model, amorphous polymers, polymer microstructure,	computer technology 1971 Apr p 56-71 real-number line, formalism, infinitesimals, mathematical logic,
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	association as aid to memory 1956 Aug. p. 42–46 [419]
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1967 Oct n 117 124 150	red shift, cosmology, galactic recession, element abundance, 'synthetic'
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1972 Sept p 120 14	1950 Sept p 24-27
receptor cells, retina, rod cells, cone cells, retinal sensitivity, retinal	Paromar Observatory, cosmology, stellar populations, interstellar
information processing maintains high-contrast image over broad range of illumination	matter, galactic evolution, Hale telescope, first yield from 200 meh
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1956 Sept p 170–182 [240	cosmology, universe expansion, universe, spectroscopy, galaxies, recession velocity, galactic clusters, observational cosmology
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quasars arc intra- or extra-galactic 1966 Dec p 40-52 [305	universe, Cassiopeia, radio galaxies, Cygnus A, Crab Nebula, colliding
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chromosomal genetics 1950 Nov p 30-39 [39]	whether quasars are intra- or extra-galactic
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sexuality in bacteria 1956 July p 109–118 [50]	nonuniformities, protogalaxies, origin of galaxies
bacteria, gene transformation, drug resistance, streptomycin,	1970 June p 26-35 spectroscopy, Doppler effect, quasars, shell hypothesis, radio source,
pneumococcus, biochemistry of Avery, McLeod and McCarty	absorption lines clue to quasar structure 1970 Dec p 22-29
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genetic transduction, viral induced malignancy 1960 Nov p 63-71 [77]	red shift measurement, astrophysics, Eotvos experiment, relativity theory, gravitation theories assessed 1974 Nov p 24-33
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gene transformation, pneumococcus, cell wall, transformation induced	reducing agent, hydrazine, rocket fuel, Raschig synthesis
by factor synthesized by cell 1969 Jan p 38-44	1953 July p 30–33
gene manipulation, molecular cloning, plasmids, Asilomar conference,	redundancy, information theory, statistics, thermodynamics, noise, digital
hazard evaluation 1975 July p 24-33 [1324] gene manipulation, gene splicing, National Academy of Sciences,	storage media, analogue storage media, information compression, automatic control, information 1952 Sept p 132-148
science policy, NIH guidelines 1977 July p 22–23 [1362]	computer music, music, information theory, computer study of
fragmentary inheritance 1958 Oct p 54	structure of music 1959 Dec p 109-120
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NIH guidelines 1976 Aug p 42	behavior, behavioral integration of reef ecology 1961 Aug p 42-49 [135]
safety guidelines 1977 May p 53	reef evolution, climatic change, coral reefs, energy cycle, fossil reefs
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magneto-optical recording, playback 1969 Nov p 70-82	reflection, photoelectric effect, color, refraction, light, resonance
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science, England, Edison, lamps, Deforest 1969 Mar p 104-112 rectifiers, electronics, electron tubes, amplifiers, communication	visual pigments, 'color Mondrian' experiment
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nower, thermionic emission, state of the technology	reflex arc, embryonic development, regeneration, nerve circuits,
1950 Oct p 30–39	embryology, 'hard-wiring' of nervous system [1959 Nov p 68-75 [72]
recycling, material resources, biosphere, nonrenewable resources,	nerve conduction, synapse, motor neuron, membrane potential
inorganic-materials cycle 1970 Sept p 194-208 [1198] nuclear power, materials, fusion reactor, fusion torch, energy	inhibitory impulse, transmitter molecules, nerve excitation, activity
transformation, plasma containment, magnetohydrodynamics	at the neural synapse 1965 Jan p 56-66 [1001]
1971 Feb p 50-64 [340]	central nervous system, neuromuscular control, muscle contraction, nerve inhibition, interneuron, motor neuron, stretch reflex, Renshaw
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red-feather money, commerce, money, bride price, cultural anthropology, red-feather money, Commerce, money, bride price, cultural anthropology, 1962 Mar p 94-104	nervous system, vision, mojor neuron, interneuron, animal behavior,
Southwest Facility solution states stellar evolution, stellar modeling,	small neuron systems as models for study 1967 May p 44-52 [1073]
	leeches, neural organization, nerve cells, nerve physiology, nerve
	signals, nervous system, neuro motor synapse 1974 Jun p 38-48 [1287]
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rotational energy, white dwarfs	with resected spinal cords) walk' 1900 Nov p 20-22
	refraction, photoelectric effect, color, reflection, light, resonance absorption, photon, electron, interaction of light with matter
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Red Sea hot brines, brine, salimity, percolation, ocean floor, sea-floor 1970 Apr p 32-42	atmospheric optics, mirages, optical illusion, Fata Morgana, walking
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nodes of Ranvier, nerve membrane 1952 Nov. p. 55-65 [20] rigerated tombs, Scythian culture, Siberia, tombs, archeology, Altai
Mountains, cloth, leather and wood artifacts preserved by refrigeration 1965 May p. 100-109
frigeration, cryogenic technology, Stirling cycle, hot-air engine, closed cycle, displacer 1965 Apr. p. 119–127
frigerator, .3 degree absolute 1953 Sept. p. 82
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Hydra, model for study of multi-cellularity 1957 Dec. p. 118-125
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embryonic development, nerve circuits, embryology, reflex arc, 'hardwiring' of nervous system 1959 Nov. p. 68-75 [72]
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development, Hydra, morphogenesis, morphogens 1974 Dec. p. 44–54 [1309]
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Regge trajectory, high-energy physics, baryons, mesons, 'strong' force, 'eightfold way', conservation laws, resonance 'particles', 'bootstrap'
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1965 Sept. p. 134-148 regolith, Apollo project, moon, metcorites, lunar soil, structure and
history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50]
relative isotope abundance, meteorites, solar system, age of solar system
1960 Nov. p. 171-182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised
at 70 1949 Mar. p. 52-55 gravity, inertia, Galilean relativity, Einstein, frames of reference,
philosophy of science, identity of inertia and gravity 1957 Feb. p. 99-109
Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46-51
relativity of motion, Coriolis effect, ocean circulation, atmospheric
circulation 1952 May p. 72-78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations,
Lorentz tranformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93-98
artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing
Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect,
general relativity tested by atomic clock 1960 Apr. p. 72-80 [271] gravitation, wave-particle duality, quantum mechanics, space-time
continuum, uncertainty principle, P.A.M. Dirac view of physics
1963 May p. 45–53 galactic radiation, gravitational waves, gravitational-radiation detector
black hole, gravitational waves, neutron stars, pulsar, Red Giant stars,
rotational energy, white dwarfs 1972 May p. 38-46 astrophysics, Eotyos experiment, red shift measurement, gravitation
gravity constant, interplanetary radar-ranging, lunar occultation, lunar
orbit, evidence for decrease of gravitational constant
infinity, space curvature, universe as finite or infinite
1976 Aug. p. 90-100

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black hole, gravitational fields, quantum mechanics, event horizon
                                                  1977 Jan. p. 34-40 [349]
                                                           1960 July p. 74
  optics, implications of Fitzgerald contraction
  see also: general relativity, special relativity, Einstein Galilean relativity
relay computers, computer technology, digital computer, analogue
    computer, binary arithmetic, logic, automatic control, computer
    memory, control systems, status of 'mathematical machines'
                                                       1949 Apr. p. 28-39
releaser stimulus, courtship display, gulls, animal behavior, displacement
                                                      1954 Nov. p. 42-46
    activity, ethology
  ethology, animal behavior, evolution, ritualized behavior, innate
     behavior, evolution of behavioral patterns 1958 Dec. p. 67-78 [412]
  arena behavior, bowerbirds, sexual behavior, animal behavior,
     courtship display, ethology, natural history
                                                1963 Aug. p. 38-46 [1098]
  fruit fly, sexual behavior, courtship song, insect behavior, species
                                                       1970 July p. 84-92
     specificity
reliability analysis, network analysis, nodes and branches, pipelines,
     powergrids, graph theory
                                                      1970 July p. 94-103
religion, Lysenkoism, Lamarck, acquired characteristics, genotype,
     evolution, phenotype, mutation, ostrich calluses, speciation,
     orthodoxy, Darwinism, experiments in acquired characteristics
                                                       1953 Dec. p. 92-99
  cargo cult, Christianity, cultural anthropology, Melanesian cargo cult
                                                    1959 May p. 117-125
  Elamite culture, ziggurat, Tower of Babel, Biblical archeology, 1000
     B.C., Iran
                                                       1961 Jan. p. 68-76
  Darwinism, evolution, Scopes trial, science teaching, creationism,
     antievolution laws in U.S.
                                                       1969 Feb. p. 15-21
                                                       1973 Jan. p. 80-87
  Dead Sea scrolls, Gnostic library, Judaism
  science teaching, evolution, curriculum reform, Darwinism,
     creationism, Bible, high school, Man, a Course of Study, biological
     sciences curriculum study
                                                       1976 Apr. p. 33-39
religious persecution, blood typing, Judaism, racial discrimination, social
     evolution, genetic drift, population genetics, Jewish community of
     Rome
                                                    1957 Mar. p. 118-128
relocation, urban renewal, slums, cities, housing, eminent domain, urban
     planning, U.S. experience with Federal subsidy of urban renewal
                                                    1965 Sept. p. 194-204
REM sleep: rapid-eye-movement sleep
REM sleep, dreams, sleep, electroencephalography, function of dreams
                                                 1960 Nov. p. 82-88 [460]
   dreams, sleep research, electroencephalography, reticular formation,
     brain waves, paradoxical sleep, cat brain, the states of sleep
                                                 1967 Feb. p. 62-72 [504]
remanent magnetism, Earth, geomagnetism, wandering poles, magnetic
     reversals, Earth's magnetism
                                                    1955 Sept. p. 152-162
   continental drift, plate tectonics, ocean floor, island arcs, Wegener
     hypothesis re-stated with new evidence, age of rocks
                                                1963 Apr. p. 86-100 [868]
   mid-Atlantic rift, pillow lava, ocean ridges, sea-floor spreading,
     submersible research craft
                                                 1975 Aug. p. 79-90 [918]
   Earth axis shift
                                                          1955 June p. 52
 remote control, manipulators, robot, feedback, automatic control,
     industrial manipulators
                                                       1964 Oct. p. 88-96
 remote sensing, aerial photography, natural resources, infrared
     photography, multiband camera, remote sensing of natural resources
                                                       1968 Jan. p. 54-69
   moon, lunar exploration, lunar landing sites, manned space flight
                                                 1969 Oct. p. 54-72 [889]
   satellites for resource exploration
                                                          1966 Nov. p. 66
 Renaissance, Vesalius, human anatomy, medical history, his de Humani
      Corporis Fabrica, work of art
                                                       1948 May p. 24-31
   creativity, scientific revolution, Leonardo, philosophy of science,
     introduction to single-topic issue on innovation in science
                                                      1958 Sept. p. 58-65
   scientific revolution, Industrial Revolution, human evolution,
      interaction of science and technology, 13th c. to 20th c.
                                                    1960 Sept. p. 173-190
 Renaissance paintings, projective geometry, Leonardo, Durer, Desargue's
      theorem, Pascal's theorem, mathematics, projective geometry as
      systematized by Poncelet and Klein
                                                       1955 Jan. p. 80-86
 Renaissance science, atomic theory, Greek science, science history,
      Boscovich, Lucretius, forces between atoms
                                                    1970 May p. 116-122
 Renaissance technology, Bruegel the Elder, technology, glimpses of
      practical knowledge at work 400 years ago
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1978 Mar. p. 134-140 [3003]

Renshaw cell, central nervous system, reflex arc, neu	TOmuscular control	troutile author to the
muscle contraction, nerve infibition, interneuro	n, motor neuron.	energy hat water Commences, solutioners, windows, tow-potential
suctou tenex, synapse	1966 May p. 102–11	energy consumed in domestic bearing the 30 percent of fuel
records, injective to plants and mammals	1963 Ano n 6	resonance absorption, radar, microwaves, spectroscopy, molecular bonds,
representative government, reapportionment, redistri computer applications, gerrymander	icting, elections,	concrent radiation, energy levels, agantum immediation
repressor molecules, phagocytosis near avacultura	1965 Nov. p. 20-2	electrodynamics, time-keeping, foundation of maser, laser
repressor molecules, phagocytosis, gene expression, o system, lac repressor, lambda repressor, isolation	operator-repressor	1948 Sent n 16.23
repressors; how they work 1978	n of two gene June p. 36–44 [1179	Mossbauer effect, relativity theory, atomic clock. Donnler effect.
reproduction, insect behavior, social insect, army ant	aute comparation	general relativity tested by atomic clock 1960 Apr n. 72-8010711
psychology, lecaback, pheromones, trophallaxis	, natural history	molecular beam, electron theory, atomic radiation, coherent radiation,
philosophy of science, anthropomorphism	1948 June n 16-7	gas molecules, nuclear magnetic resonance, Stern-Gerlach experiment
bacteriophage, genetics, tracer experiments, DNA,	protein coat	Dhotoelectric effect color reflection refraction light about about
	1953 May p. 36-39	Interaction of light with matter 1068 Sont n 60-71
virus, life cycle, bacteriophage, provirus	1954 Mar n 34-3	resonance 'particles', atomic nucleus, shell model, optical model, high-
contraception, birth control, ovulation, nidation, fe		energy physics, liquid-drop model, charge exchange enip-orbit force
animal behavior, population control, territorial beh	1954 Apr. p. 31-34	proton, neutron, structure of the nucleus 1959 Jan. p. 75-82
population controls 1964	avior, nomeostatic Aug. p. 68-74 [192]	high-energy physics, Regge poles, group theory, temporary associations
mosquitoes, yellow fever, sexual behavior, eggs, lan	nug. p. 00-14 [192	
1	968 Apr. p. 108-116	high-energy physics, baryons, mesons, 'strong' force, 'eightfold way',
biological clock, malaria, Plasmodium, parasitism,	gametocyte	the state of the s
mosquitoes 1970 Jur	ne p. 123-131 [1181]	1964 Feb. p. 74-93 [296] high-energy physics, 'eightfold way' 1964 Jan. p. 54
fetus as transplant, histocompatability, immune res	ponse.	resonance vibration, earthquakes, seismology, seismic waves, Earth's free
immunological privilege, trophoblast, nidation, p	lacenta	oscillations 1965 Nov. p. 28–37
	1974 Apr. p. 36-46	
see also: sexual reproduction		acoustic oscillation 1968 Dec. p. 94-103
reproductive behavior, see: arena behavior, lek behavio	or and the like;	resonators, quantum mechanics, Planck, science history, spectroscopy,
courtship display		black body, Einstein, photoelectric effect, Compton effect, quantum
reproductive physiology, birth control, sex hormones, h		jumps 1952 Mar. p. 47-54 [205]
reptile, dinosaurs, mammalian evolution, paleontology	1974 Sept. p. 52-62	resource management, ground water, artesian well, piezometric surface, water table, water cycle, runoff, ground water in water-resource
	1949 Mar. p. 40-43	management 1950 Nov. p. 14-19 [818]
comparative physiology, marine birds, adaptation, s	alt excreting glands	economic development, industrialization, tropical rain forest,
	959 Jan. p. 109-116	subsistence economy, tropical rain forest, urbanization, Brazil,
behavioral adaptation, 'cold-blooded' animals, pigm		uneven national development 1963 Sept. p. 208-220
thermoregulation, lizard, behavioral thermoregula		pollution control, international cooperation, jurisdictional disputes,
	59 Apr. p. 105–120	oceanography, international competition and cooperation
animal behavior, crocodile, Nile crocodile, parental	care 76 Apr. p. 114-124	1969 Sept. p. 218-234 [888] forestry, nitrogen fixation, ecosystem, runoff, erosion, watershed,
earless monitor of Borneo	1961 July p. 76	deforestation, deforestation experiment 1970 Oct. p. 92-101 [1202]
reptile evolution, continental drift, speciation, radiation		gene manipulation, grafting techniques, forestry, Southern pine, tree
convergence, Gondwanaland, Laurasia, mammalia		farming, seed-orchard concept 1971 Nov. p. 94-103
supercontinent breakup and animal diversification		resource prospecting, Amazon, tropical rain forest, developing countries,
	Aar. p. 54-64 [877]	economic planning, forest management, mineral resources, electric
research and development, science education, U.S.S.R.,	science funding,	
	969 June p. 19-29	Resources for the Future', Paley report 1952 Sept. p. 69 respiration, enzymes, catalysis, digestion, fermentation, lock-and-key
research funding, particle accelerator, U.S.S.R., high-en	956 Aug. p. 29-35	theory science history 1948 Dec. p. 20-32
N.S.F., peer review, university science, science policy,	sociology of	abysiology nervous system, endocrine system, nerve impulse, muscle
science 1977 C	Oct. p. 34-41 [698]	contraction, science, physiology 1900-1950 1950 Sept. p. 71-70
U.S. Federal budget 1956	1956 Mar. p. 49	chlorophyll, tetrapyrrole ring, hemoglobin, cytochrome, enzymes,
U.S. Federal 'mission-oriented' agencies	1956 Nov. p. 61	tetrapytrole virtuosity 1958 Aug. p. 77-81
at University of California	1957 May p. 62	lung, neonatal physiology, breathing, first breath of newborn 1963 Oct. p. 27-38
U.S. Department of Science and Technology proposes	1958 Jan. p. 44	goodoo lify insect attractant. Arum family, carmyorous plants
increase for National Science Foundation	1958 Mar. p. 52	1966 July p. 80-88
U.S. Federal appropriations	1958 Sept. p. 85	bacterial toxin, plague bacillus, Black Death, electron transport.
11 S. Federal budget 1960	1959 Jan. p. 62	mechanism of death by plague toxin 1969 Mar. p. 92-100
U.S. Federal Council for Science and Technology	1959 Feb. p. 59	aquatic insect, insect egeshell, adaptation, entomology, selective permeability of insect 1970 Aug. p. 84-91 [1187]
U.S. Federal budget 1960	1959 Mar. p. 60 1960 Feb. p. 68	solar radiation, photosynthesis, biosphere, agricultural ecosystem.
U.S. Federal budget 1961	1960 Aug. p. 77	elimax ecosystem, energy cycle, ecosystem, food chain, biosphere
N.Y. City Health Research Council U.S. support of university research	1961 Jan. p. 78	energy cycle 1970 Sept. p. 64-74 [1190]
U.S. National Aeronautics and Space Administration		biosphere, energy cycle, photosynthesis, power, radiation energy, solar
O'D' TAMERATOR VIALONIA	1961 Apr. p. 76	radiation, terrestrial radiation 1971 Sept. p. 88-100 [664] cytochrome C, protein evolution, protein structure, amino-acid
international co-operation	1962 July p. 74 1964 May p. 58	substitution, mutation rate, 1.2 billion year record of evolution.
government-university-scientist relations	1904 May p. 30	ancient protein 1972 Apr. p. 58-72 [1245]
	ine. Frenquel	water-breathing rats 1963 Apr. p. 83
reserpine, psychoactive drugs, tranquilizers, chlorpromaz		respiratory air saes, bird flight, aerodynamics, weight-strength ratio, bone concerns hirds as flying machines 1955 Mar. p. 88-96
pharmacology, synthesis	1956 July p. 50	sincture, one as change asphyxia, breathing diving bradycardia, diving
		manufactiving hirds hibernation, atteen storage, selective
reservoir dam-building, New World archeology, input and	ites, public 18 Dec. p. 12–17	ischemia, human physiology, redistribution of oxygenated blood and
works, crisis in U.S. archeology	in them for an in .	**************************************
	ement, water	'master switch of life' 1963 Dec. p. 92-106
works, crisis in U.S. archeology reservoir recharging, ground water, water resource manag cycle 1977 Ma	ement, water y p. 21-27 [924]	master switch of the

espiratory infection, histoplasmosis, fungal infection, airborne infection,	retirement, age 65 questioned 1954 Feb p 46
epidemiology, coccidioidomycosis 1948 June p 12–15	idle and happy 1956 Feb p 60
estriction enzymes, bacteria, proteolysis, infection, viral DNA, DNA sequence, bacterial recognition and rejection of exotic DNA	retroactive inhibition, learning, forgetting, proactive inhibition, recall, interference theory 1967 Oct p 117–124 [509]
sequence, bacteriai recognition and rejection of exotic DVA	retrolental fibroplasia, premature infants, epidemiology, oxygen, infant
ete mirabile, heat exchange, mackerel shark, thermoregulation,	mortality, blindness, 'blind babies' 1955 Dec p 40-44
comparative physiology, tuna, warm-bodied fishes	blindness, neonatal disorder, medical ethics, premature infants,
1973 Feb p 36-44 [1266]	medical researches, 'blind babies' 1977 June p 100–107 [1361]
counter-current exchange, heat conservation, physiology, swim	reversible reactions, time reversal, symmetry, probability against it in macroscopic world 1956 Aug p 107-114
bladder, kidney, gill, physics of a physiological invention 1957 Apr p 96	macroscopic world 1956 Aug p 107–114 reversing figures, depth reversal, Necker cube, optical illusion, visual
reticular formation, central nervous system, medulla, brain, perception,	perception 1971 Dec p 62–71 [540]
motor reflex, neurophysiology, attention and orienting mechanism in	Rh: Rhesus factor
brain 1957 May p 54-60 [66]	Rh factor, human evolution, Rh negative gene, Ro gene, blood typing,
dreams, sleep research, electroencephalography, brain waves,	race 1951 Nov p 22–25 blood groups, immune response, Rh incompatibility, prevention of
paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62-72 [504]	'Rhesus' babies 1968 Nov p 46–52 [1126]
retina, eye, rod cells, cone cells, iris, optogram, rhodopsin, camera,	antibiotic resistance, bacteria, infectious disease, drug resistance, gene
anatomy and physiology of the eye, camera as metaphor	mutation, plasmids, bacterial conjugation 1973 Apr p 18-27 [1269]
1950 Aug p 32-41 [46]	Rh incompatibility, blood groups, immune response, Rh factor,
visual perception, visual scanning, visual cortex, how we see straight	prevention of 'Rhesus' babies 1968 Nov p 46–52 [1126]
lines 1960 June p 121-129 vision, visual perception, learning, Gestalt psychology, stabilized	anti-D antibody 1966 Mar p 58 Rh negative gene, Rh factor, human evolution, Ro gene, blood typing,
retinal images, evidence for perceptual theories	race 1951 Nov p 22–25
1961 June p 72–78 [466]	rheology, flow of matter, Hooke body, Newton body, St Venant body,
cell communication, central nervous system, nerve conduction,	how solids flow 1959 Dec p 122–138 [268]
ganglion reflexes, neuroreceptors, nerve impulse, neurotransmitters,	rhesus embryo, poliomyelitis virus, tissue culture, serial passage, polio
neural synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept. p. 209–220 [98]	vaccine, tissue culture of virus opens way to vaccine 1952 Nov p 26-29
cataract, eye lens, etiology, course and treatment of cataract	Rhesus factor, see Rh
1962 Mar p 106-114	rhesus monkeys, learning, thinking, comparative psychology, 'learning to
eye, vision, 'floaters', nature and origin of 'floaters'	think' 1949 Aug p 36–39 [415]
1962 June p 119–127 eye, visual cortex, optic nerve, vision, organization of sight into vision	curiosity, problem solving, genetic traits, animal behavior 1954 Feb p 70-75
1963 Nov p 54–62 [168]	behavioral psychology, emotional deprivation, maternal deprivation,
amphibian, frog, color vision, retinal image-processing, visual	surrogate mother, infant monkey 'love' 1959 June p 68-74 [429]
perception, retinal processing of visual sensation	social deprivation, comparative psychology, maternal deprivation, peer
1964 Mar p 110-119 color vision, cone cells, pigments, ganglion cells, spectrophotometry,	group, experiments in social deprivation
three-color receptor system 1964 Dec p 48–56 [197]	1962 Nov p 136–146 [473] social behavior, urban monkeys, learning, urban and forest monkeys in
vision, photographic emulsion, vidicon, television camera,	India 1969 July p 108–115 [523]
photochemistry, light, image detection, electronic camera	rheumatic-fever, Aschoff bodies, streptococcus, infection, immune
1968 Sept p 110–117 perception, vision, retinal image-processing, visual perception, visual-	response, heart disease, hypersensitivity 1965 Dec p 66–74
cell types 1969 May p 104–114 [1143]	rheumatoid arthritis, allergic reaction, autosensitivity, poison ivy, dermatitis, multiple sclerosis, delayed hypersensitivity
receptor cells, rod cells, cone cells, retinal sensitivity, retinal	1960 Apr p 129–137
information processing maintains high-contrast image over broad	Rhind papyrus, mathematics, Egyptian civilization 1952 Aug p 24-27
range of illumination 1973 Jan p 70-79	rhinoceros, animal husbandry, antelope, giraffe, elephant, buffalo,
nerve circuits, dendrites, synapse, postsynaptic potential, olfactory bulb, microcircuits in the nervous system	hippopotamus, wildlife husbandry in Africa 1960 Nov p 123–134 rhinoceros in Asia, days seem numbered 1953 Jan p 38
1978 Feb p 92–103 [1380]	rhizobium, algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic
retina cells, vision, photosynthesis, photoperiodicity, visual pigments,	engineering, Haber process, legumes, symbiosis, nitrogenase,
phytochrome, chlorophyll, plant growth, light and living matter 1968 Sept p 174-186	biological nitrogen fixation 1977 Mar p 68-81
retinal image-processing, amphibian, frog, color vision, retina, visual	Rhodian sea law, shipbuilding, Byzantine shipping, underwater archeology, shipwreck of 17th century 1971 Aug p 22–33
perception, retinal processing of visual sensation	rhodopsin, eye, rod cells, cone cells, retina, iris, optogram, camera,
1964 Mar p 110–119	anatomy and physiology of the eye, camera as metaphor
perception, vision, visual perception, retina, visual-cell types 1969 May p 104–114 [1143]	1950 Aug p 32-41 [46]
color blindness, cone cells, fovea, genetic disease, visual pigments	electroretinography, vitamin A deficiency, night blindness, opsin, bright-light exposure, retinitis pigmentosa, night blindness in rat,
1975 Mar p 64-74 [1317]	action of vit A on eye 1966 Oct p 78-84 [1053]
retinal orientation, disoriented figures, form perception, visual perception	vision, visual pigments, opsin, isomerism, vitamin A
1974 Jan p 78-85 [557] retinal pigments, eye, vision, color perception, cone cells, trichromaticity	1967 June p. 64_76 [1075]
implies three cone pigments 1962 Nov p 120–132 [139]	bacteria, cell membrane, halobacteria, photosynthesis, salt-loving
retinal sensitivity, retina, receptor cells, rod cells, cone cells, retinal	rhythm, teaching machine, operant conditioning, inductive reasoning
information processing maintains high-contrast image over broad range of illumination 1973 Jan p. 70–79	education, self-teaching by small, rigorous steps
range of illumination 1973 Jan p 70–79 retinene, photosynthesis, chlorophyll, carotene, vision, photobiology,	1961 Nov p 90–102
phototropism, bioluminescence, sunlight, life and light	riboflavin synthesis, baking, yeast, brewing, cryptococcal meningitis, fermentation, cell physiology, yeasts, useful and novious
1959 Oct p. 92 109	1060 Est = 126 144
'retinex' theory, color and illumination, color vision, reflection, visual perception, visual pigments, 'color Mondrian' experiment	monutiense, moulin, protein structure, amino-acid sequence, and ma
1977 Dec. n. 108_128 [1303]	action, myogroom, resolution of atomic structure of three molecules
retuitts pigmentosa, electroretinography, vitamin A deficiency, night	1961 Feb p 81-92 [80] ribonuclease synthesis, solid-phase and carboxyanhydride methods
offindness, opsin, rhodopsin, bright-light exposure, night blindness in	1000 10
rat, action of vit A on eye 1966 Oct p 78-84 [1053]	nbonucleic acid, see RNA 1969 Mar p 46

nbonucleic acid, see RNA

THOUSENING IN THE HITCHIS LINE KIND OF THE PROPERTY OF THE PRO	
ribosomal RNA, hybrid cells, DNA, RNA, gene transcription, gene complement, density-gradient centrifugation, DNA-RNA	risk estimation, electromagnetic spectrum, irradiation standards,
hybridization experiments 1964 May 2 49	IDICTOVAVE DIODES microugua radional and materials
ribosome, microsome, protein synthesis, RNA, cytology, recognition of	
riodsome as site of protein synthesis 1958 Mar p. 118_124 is	energy resources, fuel imports, liquid natural gas, technology assessment, tankers, LNG 1977 Apr p. 22-19
protein synthesis, DNA, mRNA, tRNA, nucleus, chromosome,	ritualized behavior ethology animal behavior
cytology, how cells make molecules 1961 Sept p 74-82 [9.	releaser stimulus, evolution of behavioral patterns
mikina, tana, genetic code, DNA, protein synthesis, genetic code	1050 Day - (7.70 tag)
elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [15]	Fiver evolution, climatic change water erosion muses desired
DNA, polynbosomes, protein synthesis, RNA 1963 Dec p 44-5	1967 Apr n 84-94
antibiotics, protein synthesis, streptomycin, genetic code, DNA, RNA	riverhed, meanders, sine-generated curve, hydraulies, least-work path for
mutation, 'misrcadings' induced by antibiotic alterations of	river 1966 June n 60–70 18691
ribosomes 1966 Apr p 102-10 amino acids, protein synthesis, formylmethionine, mRNA, tRNA,	rivers, chimatic change, water erosion, drainage patterns, river evolution
initiation of protein synthesis 1968 Jan p 36-42 [1092	1967 Apr p 84-94
DNA transcription, electron nucroscopy, gene action visualized,	
mRNA 1973 Mar p 34-42 [1267	RNA, heredity, chromosome, DNA, nucleoproteins, protein synthesis DNA identified as agent of heredity 1953 Feb p 47-57 [28]
DNA fractionation, gene isolation, ribosomal RNA-coding genes	DNA identified as agent of heredity 1953 Feb p 47-57 [28] genetic code, codon, amino-acid pairing, DNA, Gamow proposes
1973 Aug p 20-29 (1278	triplet codon 1955 Oct p 70-78
cell structure, neutron-beam-scattering technique, protein synthesis,	bacteria, protein synthesis, genetic code, DNA, protein synthesis by
structure of ribosome 1976 Oct p 44-54	bacterial DNA-RNA in vitro 1956 Mar p 42-46
template action in protein assembly 1961 June p 81	DNA, genetic code, chromosome, protein synthesis, polymers,
mechanism of protein synthesis 1963 Feb p 66	
crystalline ribosome arrays in chick embryos 1967 Sept p 102 hybrid ribosomes 1968 Nov p 56	
nybrid ribosomes 1968 Nov p 56 cell organelle, RNA, protein synthesis, structure of the ribosome	
	protein synthesis, DNA, recognition of RNA as transcriber of DNA
1969 Oct p 28 [1157] rice, economic development, irrigation, Mekong river, monsoons, floods,	
hydro-engineering, Mekong river plan, Umted Nations	cell nucleus, cytoplasm, cell organelle, chromosome, cell physiology, DNA, endoplasmic reticulum, cytology, nuclear control of cell
1963 Apr p 49–59	
China, economic development, hybrid wheat, agricultural technology,	glial cells, learning theory, memory, neurones, brain, molecular theory
hybrid rice, irrigation, livestock 1975 June p 13-21	of memory 1961 Dec p 62-70 [134]
'green revolution', India, food and agriculture, technology transfer,	DNA, polyribosomes, protein synthesis, ribosome 1963 Dec. p 44-53
monsoons, irrigation, fertilizers, agronomy, wheat, hybrid crop	hybrid cells, DNA, ribosomal RNA, gene transcription gene
plants 1976 Sept p 154-163	complement, density-gradient centrifugation, DNA-RNA
agronomy, crop yields, plant breeding, wheat, maize, food and	hybridization experiments 1964 May p 48-56
agriculture, plant genetics 1976 Sept p 180-194	nucleic acid, nucleotide sequence, alanine, tRNA, enzyme cleavage,
can also astificant sina	fragment accombly lirct micleAtide ceauence
see also artificial rice	fragment assembly, first nucleotide sequence 1966 Feb p 30-39 [1033]
ricinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock',	1966 Feb p 30-39 [1033] antibiotics, protein synthesis, streptomycin, genetic code, ribosome,
	antibiotics, protein synthesis, streptomycin, genetic code, ribosome, DNA, mutation, 'misteadings' induced by antibiotic alterations of
ricinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock', physostigmine, caffeine, contine, quinine, cocaine, LSD, human toxins in plant physiology 1959 July p 113-121 [1087] rickets, air pollution, vitamin D, ultraviolet radiation, osteogenesis,	antibiotics, protein synthesis, streptomycin, genetic code, ribosome, DNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 107-109
ricinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock', physostigmine, caffeine, contine, quinine, cocaine, LSD, human toxins in plant physiology 1959 July p 113-121 [1087] rickets, air pollution, vitamin D, ultraviolet radiation, osteogenesis, calcium metabolism, epidemiology, sunlight	antibiotics, protein synthesis, streptomycin, genetic code, ribosome, DNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, genetic code, mutation
ricinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock', physostigmine, caffeine, contine, quinine, cocaine, LSD, human toxins in plant physiology 1959 July p 113-121 [1087] rickets, air pollution, vitamin D, ultraviolet radiation, osteogenesis, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207]	antibiotics, protein synthesis, streptomycin, genetic code, nbosome, DNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, genetic code, mutation molecular biology, triplets, anticodon, ribosomes, triplets, wobble
ricinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock', physostigmine, caffeine, contine, quinine, cocaine, LSD, human toxins in plant physiology 1959 July p 113-121 [1087] rickets, air pollution, vitamin D, ultraviolet radiation, osteogenesis, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207] rickettsiae, typhus, chick-embryo culture, Rocky Mountain spotted fever	antibiotics, protein synthesis, streptomycin, genetic code, nbosome, DNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, genetic code, mutation molecular biology, triplets, anticodon, ribosomes, triplets, wobble hypothesis 1966 Oct p 55-62 [1052]
ricinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock', physostigmine, caffeine, conune, quinine, cocaine, LSD, human toxins in plant physiology 1959 July p 113-121 [1087] rickets, air pollution, vitamin D, ultraviolet radiation, osteogenesis, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207] rickettsiae, typhus, chick-embryo culture, Rocky Mountain spotted fever 1955 Jan p 74-79	antibiotics, protein synthesis, streptomycin, genetic code, nbosome, DNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, genetic code, mutation molecular biology, triplets, anticodon, ribosomes, triplets, wobble hypothesis 1966 Oct p 55-62 [1052] DNA, genetic code, poliomychits virus, protein synthesis, virus multiplication, virus structure 1975 May p 24-31
ricinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock', physostigmine, caffeine, conune, quinine, cocaine, LSD, human toxins in plant physiology 1959 July p 113-121 [1087] rickets, air pollution, vitamin D, ultraviolet radiation, osteogenesis, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207] rickettsiae, typhus, chick-embryo culture, Rocky Mountain spotted fever 1955 Jan p 74-79 bacteria, chemical weapons, biological weapons, Vietnam war, arms	antibiotics, protein synthesis, streptomycin, genetic code, nbosome, DNA, mutation, 'misreadings' induced by antibiotic alterations of nbosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, genetic code, mutation molecular biology, triplets, anticodon, ribosomes, triplets, wobble hypothesis 1966 Oct p 55-62 [1052] DNA, genetic code, poliomyelitis virus, protein synthesis, virus multiplication, virus structure 1975 May p 24-31 role in protein synthesis 1956 Mar p 57
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	meroscopy light microscope, transmission electron interescope, the
and a second applied to measure lorces in sap	1
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niant physiology, stephen	atomic resolution 1970 Aug p 48
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human physiology, muscle liber, election	-1 and on territorial marking by family
microscopy, sarcoplasmic reticulum, functions deduced from	1968 May p 110-126 [1100]
	Schaefer method, artificial respiration, Sylvester method
to the synchronous muscle, asynchronous muscle,	1951 July P 10 2.
incect flight muscles	scheduling, combinatorial analysis, algorithms, critical path scheduling,
Cartinia Contract military history	Lampadana mathematication of cilicity
	1978 Mar p 124-132 [5001]
	schizophrenia, stress, adrenal gland, steroid hormones
a sampletion Sargassim weed in occaine	1949 July P +7-7
	psychoanalysis, art, a case study 1952 Apr p 30–34
satellite, artificial satellite, orbital motion, space exploration, Sputnik, satellite, artificial satellite, artificial Farth satellite 1957 Dec p 37-43	neuchotherapy psychoanalysis, shock therapy, psychosurgery, the case
	for envelopherany 1933 Jan p 30-03 []
moon, lunar geology, stratigraphy, cratering, lunar time scale, Ranger 1964 Dec p 38-47	amountal illness mental health, epidemiology, family, psychosis,
	1934 Mai p 30-42 [++1]
photographs animal migration, polar hears, telemetry, Arctic, satellite tracking of animal migratory animals 1968 Feb p 108-116 [1102]	cultural patterns, Irish families, Italian families, schizophrenia and
	195/ Aug p 105-110
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Sprink Sprink Hespirs	measurement of motivation 1963 May p 130-140
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Sputnik, Sputnik I results 1960 Sept p 98	
weather satellite forecasting better good to reduce CEP 1962 May p 75	Overtakes tiving statement = ===
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neutron stars, pulsar, Cygnus X-1 1976 Oct p 66–79A	electrophoresis Schmidt telescope, Palomar Observatory, Hale telescope, galactic survey,
satellate diorambonuciois acid sag sDNA	cosmology, 200-inch and 48 inch Palomar telescopes
saturation diving, continental shelf exploitation, underwater shelters,	cosmology, 200-inch and 48 inch i alomai relescopes 1948 Aug p 12–17
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1906 Mar p 24-35 [1050]	
Saturn, Neptune, outer planets, Pluto, solar system, Uranus	Modification
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tenth moon reported 1967 Apr p 50	schooling behavior, animal behavior, marine biology, fish, sensory
Saudi Arabia, Middle East oil, petroleum resources, energy economics,	systems for parallel orientation 1962 June p 128–138 [124]
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1948 Sept p >-13	potential, perfusion technique, cell perfusion, structure of axonal
savanna topography, animal migration, grassland, grazing animals,	tube, physiology of neural transmission, concentration gradients
grazing ecosystem, Serengeti National Park, Tanzania 1971 July p 86–93 [1228	1966 Mar p 74–82 [1038]
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	N S F to make institutional grants 1960 July p 74
andeelogote questions 1050 S. m. m. to to	USYR science bureaucracy 1061 turn 24
thromosome, mutation, evolutionary diversity, general \$ 1900, 1950, page	1141 101 11410 IN ILAIV
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euzymes, sulfa drugs, antibiotics, biochemistry 1900-1950	II S. di alima i antimi
1950 Sont n 67 69	deployment of research funds and 'social status' of diseases
physiology, nervous system, endocrine system, respiration, nervo	
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anthropology, human evolution, culture as concept, anthropology	"Research Universities and the National Interest" 1978 June p. 78
(930 Sept p 87-94	science history. Franklin, sentry-box experiment, electrical nature of
science curriculum, curriculum reform, science teaching, high school, not	lightning, 'electrical fluid', Benjamin Franklin, life and work
enough scientists and engineers 1954 Feb p 27-29	1948 Aug. p 36-43
science education, NSF, science funding, university research,	enty mes, catalysis, digestion, respiration, fermentation, lock-and key theory 1948 Dec. p. 28-39
fundamental research 1948 June p. 7–11	theory 1948 Dec p 28-39 tuberculosis, tubercle bacillus, mortality rates, economic development,
N S P, science funding, university science, appraisal of the new	public health, popularization of well-being, not therapy, ends 'white
institution upon its legislation 1950 July p. 11-15	plague' 1949 Oct p 30-41
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Conant on U.S. high schools	1958 June p. 4	ld an foodule to at the
teacher shortage	1050	so the first that the ecology, becaut, fish, manne life, life in
laboratory-demonstration equipment from U.S.S.R.	1050 \ (7	1969 Sept. p. 146 162 1994
curriculum reform, Biological Sciences Curriculum S	Smdy	seamour, see occun floor
	1960 July p. 8	sea-floor spreading, magnetic field, volcanic rocks, paleomagnetism,
antivivisection movement in high schools	1961 Out = 6	24 PCOMISEDCIAL TOURTS HE TO OFF ME OF ELECTRICAL TO A STATE OF THE
science funding, N.S.F. institutional grants for science	ca ta whina	1967 Feb n 11-11
Constitution of the service of the s	1067 L C	continental drift, glaciation, Gondwanaland, Laurasia,
student distaste for science	1967 Jan. p. 5.	paleoniagnetism, Glossopteris, supercontinents, plate tectorics
science-writing awards. Westinghouse winners	1968 May p. 4	continental drift confirmed 1968 Apr. n. 52_64 [874]
scientific careers, Nobel prizes, education, university ed	1952 Aug. p. 40	continental drift, magnetic reversals, crustal movement, earthquakes,
sociology, sociology of the Nobel prizes 1	Jucanon,	plate tectonics 1968 Dec. p. 60–70 [875]
scientific croations artistic marking and in	967 Nov. p. 25-3.	continental drift, ocean ridges, magnetic reversals, origin of oceans
scientific creations, artistic creations, premature discoveries 1972 D.	eries, uniqueness	1969 Sept. p. 66-75 [888]
countific in the second	ec. p. 84–93 [1261]	ocean floor, lava, dikes, magnetic bands, mid-ocean ridge, the deep-
scientific instrumentation, observatory, astronomy, Tyc	ho Brahe,	ocean floor 1969 Sept. p. 126-142 [883]
Stjerneborg, science history, 16th century Hven ob	servatory	continental drift, plate tectonics ocean ridges conjection currents
196	il Feb. p. 118-128	Earth mantle, tensile-stress hypothesis 1969 Nov. p. 102-119
scientific revolution, creativity, Renaissance, Leonardo,	philosophy of	Afar triangle, Red Sea, Rift Valley, guy ot, Gulf of Aden, continental
science, introduction to single-topic issue on innov-	ation in science	drift, sea-floor spreading opens new ocean 1970 Feb, p. 32-40 [891]
19	958 Sept. p. 58-65	brine, Red Sea hot brines, salinity, percolation, ocean floor
Renaissance, Industrial Revolution, human evolution	, interaction of	1970 Apr. p. 32-42
science and technology, 13th c. to 20th c. 1960	Sept. p. 173-190	continental drift, plate tectonics, scaling, subduction, Earth crust,
scientists, science education, liberal arts colleges, origins	of U.S. scientists	Triassic period, Pangaea, computer modeling, supercontinents,
	951 July p. 15-17	breakup of Pangaea traced 1970 Oct. p. 30-41 [892]
psychological testing, socioeconomie background, soc	ial psychology	volcanoes, rain, sea water composition, geochemical cycle, salinity,
psychological study of 64 entinent scientists 19	052 Nov. p. 21-25	carbonate, hydrologic cycle, why the sea is salt
sociability, social psychology, 'Terman sample', scient	ists and tother	caroonate, hydrologic cycle, why the sea is sait
people' compared on basis of 'Terman' sample of in	tallactu illy cifei	1970 Nov. p. 104-115 [839]
persons under three-decade longitudinal study	iteliectually gifted	continental drift, earthquake zones, magnetization patterns, subduction
	an - 25 20 (127)	zones, mountain formation, plate tectonics, overview of the new
talents wasted in uniform	an. p. 25–29 [437]	geology 1972 May p. 56-68 [900]
· - · · ·	1949 Feb. p. 29	mountain formation, continental drift, Gondwanaland, Himalaya
psychoanalysis by Lawrence Kubie	1953 Dec. p. 58	formation, Indian-Ocean formation, magnetization patterns, plate
Kubie psychoanalysis continued	1954 Mar. p. 48	tectonics 1973 May p. 62-72 [908]
engineers, low on happiness scale	1955 Apr. p. 50	remanent magnetism, mid-Atlantic rift, pillow lava, ocean ridges,
scintigraph, antimatter, crystal structure, gamma radiation	on, gravitational	submersible research craft 1975 Aug. p. 79-90 [918]
interaction, positron probes, solid state physics 19	975 July p. 34–42	earthquake zones, island arcs, lithospheric subduction, mountain
scintillation counter, electron-multiplier tube, particle acc	celerator,	formation, plate tectonics, subduction zones, volcanic zones
scintillation counters 19:	53 Nov. p. 36-41	1975 Nov. p. 88-98 [919]
poisons, ionizing radiation, radioautography, 'bone-see	ekers', chelate	mountain formation, continental drift, earthquake zones, Gobi Desert,
19:	55 Aug. p. 34-39	Himalaya formation, India-Eurasia collision, plate tectonics, Tibetan
scintillation counter boson, neutrino, cosmic radiation ne	utrinos, solar	plateau 1977 Apr. p. 30-41
neutrinos, intermediate vector boson, detection of na	atural neutrinos	plate tectonics, metals, mid-ocean ridge, hydrothermal extraction,
196	66 Feb. p. 40-48	manganese nodules, origin of metal deposits on ocean floor
Scopes trial, Darwinism, evolution, creationism, Bryan, I	Darrow, Scopes	1978 Feb. p. 54-61 [927]
trial, U.S.A. 1959	Jan. p. 120-130	magnetic-reversal data 1967 Aug. p. 40
Darwinism, evolution, religion, science teaching, creation	onism,	sea-ice fluctuations, climate, glaciation since Ice Age, mountain glaciers,
	59 Feb. p. 15-21	glacier fluctuations 1970 June p. 100-110
Scorpius, Crab Nebula, X-ray astronomy, sychrotron radi	iation, neutron	sea lamprey, chemical control 1959 Dec. p. 84
stars. X-ray astronomy by rocket-borne instruments		sea level, Earth, glaciation, Antarctic glacier, climate, hydrologic cycle
196	4 June p. 36-45	1955 Sept. p. 84-92 [809]
	1964 Mar. p. 60	ocean floor, glaciation, continental uplift, sea level variations
Scotland, medieval archeology, St. Ninian's Isle, silver arti	ifacts, the	1960 May p. 70–79
treasure of St. Ninian's 1960 Y	Nov. p. 154–166	Black Sea, Tethys Sea, Mediterranean Sea, geological history of Black
	1960 Feb. p. 74	Sea 1978 May p. 52-63 [932]
scrapie, brain disease, kuru, Chédiak-Higashi syndrome, v	irus disease,	sea power, ocean floor, ocean, sea water, marine resources, introduction
animal vectors, multiple sclerosis 1967.	Jan. p. 110–116	to single-topic issue on the ocean 1969 Sept. p. 54-65 [879]
degenerative diseases, immune system, slow virus infecti	on, virus	sea routes, West Indies, New World archeology, Hispaniola, stone
disease, kuru, cancer virus, herpes virus 1974 Feb.	p. 32–40 [1289]	artifacts, island chains, seafaring hunters from Central Amenca?
screw dislocation, crystal growth, spiral growth, loop growt	th	1969 Nov. p. 42–52 [652]
1955	Mar. p. 74-80	sea urchin, fertilization, spermatozoon, acrosome reaction, sexual reproduction, moment of fertilization 1959 July p. 124-134
screw worm fly, biological pest control, X-ray, sterilization,	pest control,	
cattle, eradication of the screw worm fly) Oct. p. 54-61	sea urchin egg, fertilization, parthenogenesis 1950 Dec. p. 46–49 sea urchin embryo, crystals, calcite, calcium carbonate crystals, crystal
male sterilization works	1955 Oct. p. 50	sea urchin embryo, crystais, calche, calchin carbonate crystais, c
and depted by male sterilization	1966 Oct. p. 44	structure, embryonic development 1977 Apr. p. 82-92 sea urching egg, mitotic spindle, chromosome, digitonin, centrioles
coulnture cave art, cave paintings, Paleolithic archeology, 1	ascaux,	sea urching egg, mitotic spilidic, cinomosonic, digitotini, centrologi 1953 Aug. p. 53–63
1900	100. p. 30-74	sea water, irrigation, salt-water agriculture, agronomy, and lands, salt
	nication,	
trademarks language, visual sullulus	, visuus sibriars	ocean floor, ocean, sea power, marine resources, introduction to single-
1972 3006	p. 02 70 [5 (b]	tonic iccue on the ocean 1969 Sept. p. 54-65 [879]
architecture, erosion, marble, limestone, atmospheric poll	10HUH, 16 126 [2012]	pollution, ocean, mineral resources, wetlands, ocean floor, physical
		1969 Sept. D. 166-176 18831
the City of the territory and tollies, alcheol	by	sea-floor spreading, volcanoes, rain, geochemical
Mountains, cloth, leather and wood at that 1965 M	ay p. 100-109	cycle, salinity, carbonate, hydrologic cycle, why the sea is salt
refrigeration	-7 1	1970 Nov. p. 104–115 [839]
	-RNA	sea-water desalination, chemical process 1961 Nov. p. 88
sDNA: satellite dioxyribonucieic acid sDNA, DNA repeat segments, evolution, genome size, DNA 1970 Apr. p.		
hybridization 1970 Apr. p.	. 24-31 11/31	

ea-water freezing, ice crystals, desalination, isobutane, heat of fusion,	seismic mapping, Antarctica, geology, glaciation, seismology, Antarctic
freezing as alternative to distillation 1962 Dec p 41-47	land mass, part continent part archipelago 1962 Sept p 151-166
ea-water nutrients, food supply, fisheries, marine farming, upwelling,	seismic waves, earthquakes, Earth core, Earth mantle, low frequency
fishponds 1970 Dec p 14–21 [1205]	seismic waves elucidate Earth structure 1959 Mar p 131-143 [827] earthquakes, seismology, resonance vibration, Earth's free oscillations
ea-water salinity, energy exchange, ocean microstructure, ocean	1965 Nov p 28–37
circulation, oceanic stirring, sea-water temperature 1973 Feb p 64-77 [905]	Earth core, earthquakes, underground nuclear explosions, fine
ea weed, Sargasso Sea, ocean circulation, Sargassum weed in oceanic	structure of Earth's interior, core within core
desert 1956 Jan p 98–104	1973 Mar p 24–33 [906]
eafaring, commerce, Vikings, nomads, Scandinavia, Vinland, Siegfried	Andes, eartbquake distribution, mountain formation, plate tectonics,
legend, Svea, appraisal of 400-year Viking ascendance	volcanic activity 1973 Aug p 60–69 [910]
1967 May p 66~78	Earth mantle, kimberlites, meteorite composition, plate tectonics,
seagulls, Peru Current, anchovy, guano, El Niño, upwelling	plumes, Earth dynamics 1975 Mar p 50–63 [915]
1954 Mar p 66-71	earthquake dynamics, earthquake prediction, ground motion, strong- motion seismology 1977 Dec p 68-78 [928]
seal, Antarctica, directional orientation, breathing, breathing holes in ice 1969 Aug p 100–106 [1156]	Earth as 'whispering gallery' 1975 Sept p 56
energy cycle, Eskimo, hunting societies, food chain, power, Baffin	seismography, long-waved seismograph for exploring core
Island, ecosystem 1971 Sept p 104–115 [665]	1953 Apr p 50
seamounts, ocean floor, topography, Aleutian Trench, fathogram, sonar,	ocean floor, microseism tracking for weather forecasting
echo-sounding, the Pacific floor 1952 Apr p 19-33	1960 Oct p 95
ocean floor, Pacific Ocean, Mendocino escarpment, fracture zones,	seismology, microseisms, weather, earthquakes 1949 Feb p 42–45
Earth mantle convection 1955 July p 36-41	ocean floor, sonar, sedimentary cores, Albatross voyage, isotope dating, Swedish deep-sea expedition 1950 Aug p 42-45
seat belts, airbag, automobile design, automotive safety, crashworthiness tests 1973 Feb p 78-86	Swedish deep-sea expedition 1950 Aug p 42-45 geology, Earth science, science, Earth core, Earth mantle,
Sebei tribe, bride price, marriage contracts, anthropology	geochronology, ocean floor, geology 1900-1950 1950 Sept p 36-39
1973 July p 74–85	Earth core, Earth mantle, earthquakes, the interior of the Earth
second of time, cestum radiation standard 1968 Jan p 46	1955 Sept p 56-61 [804]
second sound, heat, diffusion, solid state physics, thermal waves,	ocean floor, Vema, explosion-generated sound waves map ocean floor
cryogenics, wave propagation, phonon, helium, thermal waves in	1962 May p 116–126
solid helium 1970 May p 92–101	arms control, atomic bomb test, underground nuclear explosions, how
London vs Landau 1950 Apr p 33 secondary radiation, cosmic radiation, elementary particles, ion traps,	to detect underground weapons tests and distinguish from small earthquakes 1962 June p. 55-59
high-energy physics 1949 Mar p 28–39	earthquakes 1962 June p 55-59 Earth mantle, plastic zone, isostatic equilibrium, basalt, Mohorovicic
secondary sexual characteristics, ACTH, hormone, sexual characteristics,	discontinuity, plastic zone at depth between 37 and 155 miles
growth, thyroid-stimulating hormone, follicle-stimulating hormone,	1962 July p 52-59
prolactin, androgens, estrogens, human physiology, endocrine	Antarctica, geology, glaciation, seismic mapping, Antarctic land mass,
system, chemical integrators of the body 1957 Mar p 76–88 [1122]	part continent-part archipelago 1962 Sept p 151–166
secret weapon?, \$5 billion for Department of Defense 1951 Oct p 32	earthquakes, resonance vibration, seismic waves, Earth's free oscillations
sedatives, barbiturates, hypnotics, tranquilizers, anesthesia, pharmacology 1958 Jan p 60-64	oscillations 1965 Nov p 28-37 earthquakes, atomic test ban, atomic bomb test, underground nuclear
sedimentary cores, ocean floor, sonar, seismology, Albatross voyage,	explosions, arms control, detection and discrimination of
isotope dating, Swedish deep-sea expedition 1950 Aug p 42-45	underground atomic weapons tests 1966 July p 19-29
bathymetry, sonar, gravimetry, ocean floor, continental shelf, Lamont	arms control, atomic test ban, underground nuclear explosions,
Geophyscial Observatory 1956 Dec p 83–94	technology for verification of underground nuclear test ban
Earth crust, deep sea drilling, ocean evolution, Pacific plate, plate tectonics, voyager of the Glomar Challenger	1972 Jan p 13–23 [343]
1973 Nov p 102–112 [911]	earthquake prediction, plate boundary stresses, earthquake precursors 1975 May p 14-23 [917]
sedimentary rock, fossil record, organic molecules, gas chromatography,	finds a third wave 1951 Mar p 29
chlorophyll, hydrocarbons, 'chemical fossils'	Earth's crust 1962 Jan p. 64
1967 Jan p 32-43 [308]	selective ischemia, asphyxia, breathing, diving bradycardia, respiratory
calcium carbonate, carbon cycle, photosynthesis, fossil fuel	gas exchange, diving mammals, diving birds, hibernation, oxygen
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125-132 [1193]	storage, human physiology, redistribution of oxygenated blood and 'master switch of life'
continental evolution, geosynchine, mountain formation, plate	'master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22
tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899]	draft and college attendance 1951 Sept p 48
sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive,	no science exemptions 1954 Aug p 38
air drive, magnetic suspension, 900,000 g, 60 million r p m	discrimination by class and race 1967 May p. 54
1951 June p 42-51 Earth crust, continental evolution, volcanoes, island arcs, origin of the	self-disclosure, social psychology, interpersonal relationships,
continents 1955 Sept p 62–66 [816]	idiosyncracy in self-disclosure 1958 May p 77–82 self esteem, behavior, child development, personality
Seebeck effect, thermoelectricity, semiconductor, Peltier effect	1968 Feb p 96–106 [511]
1958 Nov. p. 31–37	self-regulation, cybernetics, feedback, automatic control, computer
seed, germination, sprout after 800 year 1951 Nov p 34	science, automata theory, mechanical, biological, social self-
germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptauon, germination, dormancy 1959 Apr p 75–84	regulation 1948 Nov. p. 14-19
seegregation, cities, racial discrimination, social geography, American	automatic control, automata theory, information theory, feedback,
Negro, metropolitan segregation 1957 Oct p 33-41	introduction to single-topic issue on automatic control
racial discrimination, American Negro, Puerto Ricans, housing,	self-reproducing machine, feedback, computer science, von Neumann
poverty 1965 Aug p 12–19 t6261	machine, automata theory, Turing machine, 'artificial living plants'
racial discriminauon, prejudice, American Negro, public opinion, attitude survey, U S whites, integration, longitudinal attitude study	1056 On - 110 126
1978 Tune n. 42_49 17071	molecular replication, automata theory, computer technology, machine
seiches, tsunamis, ocean waves, surf, breakers, generation and	models of molecular assembly 1050 function 105 114 cm.
Propagation of ocean waves 1050 Aug n. 74 94 19391	biological sciences, mathematics, nerve impulse, predation, Turing machine, automata theory, mathematics in biology
Seine River source, Celtic religion, Gauls in France, shring of Sequana	
1971 July p 65–73	canais, space medicine, acceleration, geforces, weightless
	black-out 1951 Jan p 16–19
<u>_</u>	F 10 17

1547.

semiconductor, solar battery, solid state physics, photoelectric effect.	Dr
1055 Dec 2 103 11	Pacifican corpuscle, touch, olfactory receptors, taste receptors,
mermoreculent, seedeck effect. Pelifier effect 1959 Nov. n. 21, 2	7 Finite receptors, biological transducers
particle defector, particle physics, solid state physics, particle	human eye, optical illusion, vision, 'after effects', visual cortex, 'cortical
accelerator, semiconductor particle-detector	\$.00.000
1962 Oct p 78-88 (284	olfaction 1962 Jan p 44-49 olfaction, stereochemical theory of
superconductivity, superconductivity in semiconductors	Oxfor percention
light market by 1.56-59	9 human anatomy, neuropsychology, eye, ear, Descartes, 17th c
hight-emitting diode, laser, electron beam, junction diode, solid, solid	JDDFOJCh to huntin percention, much increal track and
1207 81.15 10 105-17	² 1964 May p. 108-116 (184)
crystal structure, solid-state electronics, X-ray crystallography, metals, nonmetals, materials technology, amorphous solid, electrical	kinesthetic memory, spatial orientation, sensory feedback, plasticity in
conductivity 1967 See, p. 80, 90	Sensory-motor systems in man and cats 1965 Nov p 84-94 (494)
electrical conductivity. Fermi surface, materials technology, quantum	learning, vision, touch, visual perception dominates touch
mechanics, charge carriers, electron mean free path, electrical	1967 May p 96-104 [507]
properties of materials 1967 Sept. p. 194-203	see also perception, visual perception and the like
accelerated-ion technique, ion implantation, inicroelectronics, 'doping'	The state of the s
1973 Apr p 64-71	brain circuitry, mammalian brain, nerve signals, stimulus localization,
electromagnetic radiation, electron-hole liquid, exeiton, quantum	visual perception, superior colliculus in integration at brain function
nicchanics 1976 June p. 28–37	1972 Dec p 72–82 [553]
room temperature and organic 1960 June p 82	sentence, grammar, truth, logic, philosophy, metalogic, mathematical
ace also amorphous senuconductors	proof, antimony of the liar, proof and truth 1969 June p 63-77
seniconductor memories, charge-coupled devices, charge transfer,	sentry-box experiment, Franklin, science history, electrical nature of
computer memory, image sensing 1974 Feb p 22-31 charge-coupled devices, digital computer, magnetic bubble memories,	lightning, 'electrical fluid', Benjamin Franklin, life and work
moving-surface meniories, unicroelectronics	1948 Aug p 36-43
1977 Sept. p. 130–145 [378]	seond sound, superfluidity, helium 1, helium 2, quantum mechanics, low-
semiconductor technology, electric power generation, photovoltaic	temperature physics, liquid helium properties 1958 June p 30-35 [224]
conversion, silicon-crystal structure, solar cells 1976 Oct p 34-43	separation techniques, spectroscopy, mass spectroscopy, ion beam
amorphous senuconductors, nonperiodie systems, Ovshinsky devices,	1953 Mar p 68-74
quantum mechanics, switching phenomena	density-gradient, ultracentrifugation 1965 Aug p 70-76
1977 May p 36-48 [362]	high-gradient magnetic separation, kaolin punfication, magnetic
integrated circuits, logic gates, metal-oxide semiconductors,	separation, wastewater purification 1975 Nov p 46-54
microelectronics, transistor 1977 Sept p 70–81 [375]	pH gradient 1955 Feb p 60
semicrystalline polymers, amorphous polymers, polymer nucrostructure, random-coil model, synthetic polymers, thermoplastic polymers	sequential analysis, quality control, statistical sampling, probability 1953 Mar p 29–33
1975 Dec p 96–106	sequential processing, computer technology, computer programming,
semimetal, crystallography, magnetothermoelectricity, thermomagnetic	parallel processing ILLIAC IV fastest computer
cooling, solid-state refrigeration 1964 June p 70-82	1971 Feb p 76-87
Semites, Mycenaean civilization, Hebrew civilization, Linear A script,	sequestering, chelation, metal ions, ring compounds, porphyrin ring,
Linear B script, Minoan civilization, Crete, common origin of Greek	organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76
and Hebrew civilizations 1965 Feb p 102-111	separation 1933 June p de-10 serial passage, pohomyelitis virus, tissue culture, thesis embryo, poho
Sendai virus, cell culture, cell hybridization, cell differentiation, hybrid cells, gene mapping, mouse-rat, mouse-human hybrid cells in	vaccine tissue culture of virus opens way to vaccine
laboratory 1969 Apr p 26-35 [1137]	1952 Nov p 26-29
senility, aging, gerontology, longevity, medical care 1973 Sept p 44-52	serial-recognition hypothesis, eye movement, pattern recognition, scan
senior societies, elections to National Academy of Sciences and American	path recordings, visual perception 1971 June p 34-43 [331]
Philosophical Society 1949 June p 28	serotonin, acetylcholine, hormone, nerve impulse, synapse, emotional
sensory deprivation, vision, learning, experience, 'arrested vision', role of	illness, neurotransmitters, central nervous system, physiological
environment experience in normal development 1950 July p 16-19 [408]	psychology, chemical mediation of nerve impulses 1957 Feb p 86-94
electroencephalography, perceptual isolation, hallucination, boredom,	auxing I SD comparative physiology neurophysiology, physiological
neuropsychology, effect of exposure to monotonous environment	1057 Dan B 32-30
	function of serotonin 1957 Dec p 52-56
1957 Jan p 52–56 [430]	adrenal gland, pineal organ, biological clock, estrogens, progesterone,
1957 Jan p 52-56 [430] brain development, environmental stimuli, learning, memory, rats	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015]
1957 Jan p 52-56 [430] brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541]	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydraie, neurotransmitters, human nutrition,
brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydrate, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population
brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydrate, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89
brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception 1963 Oct p 84-93 [1089] sensory feedback, kinesthetic memory, sensory perception, spatial	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydrate, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89 serum proteins, catalytic proteins, enzyme action, protein cutting
brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception 1963 Oct p 84-93 [1089] sensory feedback, kinesthetic memory, sensory perception, spatial	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydraie, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89 serum proteins, catalytic proteins, enzyme action, protein cutting
brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception 1963 Oct p 84-93 [1089] sensory feedback, kinesthetic memory, sensory perception, spatial orientation, plasticity in sensory-motor systems in man and cats 1965 Nov p 84-94 [494]	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydraie, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89 serum proteins, catalytic proteins, enzyme action, protein cutting enzymes, proteolytic enzymes, chymotrypsin, elastase, trypsin 1974 July p 74-88 [1301]
brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception 1963 Oct p 84-93 [1089] sensory feedback, kinesthetic memory, sensory perception, spatial orientation, plasticity in sensory-motor systems in man and cats 1965 Nov p 84-94 [494]	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydrate, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89 serum proteins, catalytic proteins, enzyme action, protein cutting enzymes, proteolytic enzymes, chymotrypsin, elastase, trypsin 1974 July p 74-88 [1301] serum sickness, allergy, immune reaction, antigens, antibodies, hypersensitivity 1948 July p 26-29
brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception 1963 Oct p 84-93 [1089] sensory feedback, kinesthetic memory, sensory perception, spatial orientation, plasticity in sensory-motor systems in man and cats 1965 Nov p 84-94 [494] muscle contraction, physiological tremor 1971 Mar p 65-73 [1217] muscle control, muscle spindles, psychophysics, servomechanisms,	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydrate, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89 serum proteins, catalytic proteins, enzyme action, protein cutting enzymes, proteolytic enzymes, chymotrypsin, elastase, trypsin 1974 July p 74-88 [1301] serum sickness, allergy, immune reaction, antigens, antibodies, hypersensitivity 1948 July p 26-29 service workers, labor force, productivity, production workers
brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception 1963 Oct p 84-93 [1089] sensory feedback, kinesthetic memory, sensory perception, spatial orientation, plasticity in sensory-motor systems in man and cats 1965 Nov p 84-94 [494] muscle contraction, physiological tremor muscle contraction, muscle spindles, psychophysics, servomechanisms,	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydrate, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89 serum proteins, catalytic proteins, enzyme action, protein cutting enzymes, proteolytic enzymes, chymotrypsin, elastase, irypsin 1974 July p 74-88 [1301] serum sickness, allergy, immune reaction, antigens, antibodies, hypersensitivity 1948 July p 26-29 service workers, labor force, productivity, production workers 1951 Sept p 36-41
brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception 1963 Oct p 84-93 [1089] sensory feedback, kinesthetic memory, sensory perception, spatial orientation, plasticity in sensory-motor systems in man and cats 1965 Nov p 84-94 [494] muscle contraction, physiological tremor 1971 Mar p 65-73 [1217] muscle control, muscle spindles, psychophysics, servomechanisms, stretch reflex, tendon organ 1972 May p 30-37 [1249] coordination of movement, eye head coordination, visual targeting 1974 Oct p 100-106 [1305]	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydrate, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89 serum proteins, catalytic proteins, enzyme action, protein cutting enzymes, proteolytic enzymes, chymotrypsin, elastase, trypsin 1974 July p 74-88 [1301] serum sickness, allergy, immune reaction, antigens, antibodies, hypersensitivity 1948 July p 26-29 service workers, labor force, productivity, production workers 1951 Sept p 36-41 servemechanisms, feedback, control loop, flyball governor, positive
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brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception 1963 Oct p 84-93 [1089] sensory feedback, kinesthetic memory, sensory perception, spatial orientation, plasticity in sensory-motor systems in man and cats 1965 Nov p 84-94 [494] muscle contraction, physiological tremor 1971 Mar p 65-73 [1217] muscle control, muscle spindles, psychophysics, servomechanisms, stretch reflex, tendon organ 1972 May p 30-37 [1249] coordination of movement, eye head coordination, visual targeling 1974 Oct p 100-106 [1305] sensory organs, hearing, vision, ommatidia, neuroreceptor cells, cytology,	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydrate, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89 serum proteins, catalytic proteins, enzyme action, protein cutting enzymes, proteolytic enzymes, chymotrypsin, elastase, trypsin 1974 July p 74-88 [1301] serum sickness, allergy, immune reaction, antigens, antibodies, hypersensitivity 1948 July p 26-29 service workers, labor force, productivity, production workers 1951 Sept p 36-41 servomechanisms, feedback, conirol loop, flyball governor, positive feedback, negative feedback, ecological system, nervous system, economic system, automatic control, feedback concept 1952 Sept p 48-55
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brain development, environmental stimuli, learning, memory, rats 1972 Feb p 22-29 [541] sensory discrimination, afterimages, color vision, photochemistry, visual pigments, photochemistry of color perception 1963 Oct p 84-93 [1089] sensory feedback, kinesthetic memory, sensory perception, spatial orientation, plasticity in sensory-motor systems in man and cats 1965 Nov p 84-94 [494] muscle contraction, physiological tremor 1971 Mar p 65-73 [1217] muscle control, muscle spindles, psychophysics, servomechanisms, stretch reflex, tendon organ 1972 May p 30-37 [1249] coordination of movement, eye head coordination, visual targeting 1974 Oct p 100-106 [1305] sensory organs, hearing, vision, ommatidia, neuroreceptor cells, cytology, taste buds, how cells receive stimuli 1961 Sept p 222-238 [99] heat sensors, infrared receptors, snake, infrared laser, herpetology 1973 May p 94-100 [1272]	adrenal gland, pineal organ, biological clock, estrogens, progesterone, melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain function, carbohydrate, neurotransmitters, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291] serum protein analysis, human population, genetic drift, race, population genetics 1974 Sept p 80-89 serum proteins, catalytic proteins, enzyme action, protein cutting enzymes, proteolytic enzymes, chymotrypsin, elastase, trypsin 1974 July p 74-88 [1301] serum sickness, allergy, immune reaction, antigens, antibodies, hypersensitivity 1948 July p 26-29 service workers, labor force, productivity, production workers 1951 Sept p 36-41 servomechanisms, feedback, control loop, flyball governor, positive feedback, negative feedback, ecological system, nervous system, economic system, automatic control, feedback concept 1952 Sept p 48-55 control systems, automatic control, actuators, frequency response, pneumatic servomechanisms, hydraulic servomechanisms, control systems 1952 Sept p 56-64 muscle control, muscle spindles, psychophysics, sensory feedback,

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commutative algebra, Hilbert spaces, science, mathematics 1900-	
1950, undecidable questions 1950 Sept p 40-42	1960 Sept p 76-87 [602]
infinity, equivalent sets, cardinal number, Cantor 1952 Nov p 76-84	baboons, social behavior, comparative psychology, baboon troops in
creativity, mathematical invention, analytic geometry, Fermat's last	their natural environment 1961 June p 62-71 [614]
theorem, innovation in mathematics 1958 Sept p 66-73	animal behavior, evolution, innate behavior, lovebird, interspecies
mathematical proof, foundations of mathematics, mathematical	differentiation of behavior 1962 Jan p 88-98
	pheromones, insect physiology, queen substance, muskone, social
	behavior, ants, Gypsy moths, mice 1963 May p 100-114 [157]
botany, taxonomy, computer applications, zoology, numerical	
taxonomy, computer classification of living things	arena behavior, bowerbirds, animal behavior, courtship display,
1966 Dec p 106-116 [1059]	releaser stimulus, ethology, natural history
mathematics, non-Cantorian sets, Russell's paradox, Cantor, non-	1963 Aug p 38-46 [1098]
Euchdian geometry, axiom of choice 1967 Dec p 104-116	avian reproduction, ring dove, breeding cycle, hormone, fertilization
continuum hypothesis and axiom of choice 1964 Jan p 55	1964 Nov p 48-54 [488]
sewage disposal, air pollution, cities, water supply, smog, water pollution,	animal migration, animal navigation, turtles, telemetry, nesting,
taxation, Los Angeles, New York, metabolism of cities	Cheloma mydas, green turtle, 1,400 mile journey
1965 Sept p 178–190	1965 May p 78–86 [1010]
sewage treatment, water pollution, biological oxygen demand, radioactive	animal behavior, speciation, gulls, evolution, innate behavior, ethology,
waste disposal, stream pollution 1952 Mar p 17-21	species discrimination, Larus, eye rings 1967 Oct p 94-102 [1084]
phosphorus from sewage 1950 Apr p 34	mosquitoes, yellow fever, reproduction, eggs, larvae, Aedes Aegypti
conversion by algae 1952 Aug. p 32	1968 Apr p 108–116
foaming detergents 1953 July p 48	manne birds, phalarope, animal behavior, parental care, sex role,
sex attractants, insect behavior, bee dances, pheromones, courtship	hormone 1969 June p 104-111
display 1972 Sept p 52-60 [1280]	fruit fly, releaser stimulus, courtship song, insect behavior, species
gypsy moth, biological pest control, pheromones, olfactory receptors,	specificity 1970 July p 84-92
silk moth, chemotaxis, communication 1974 July p 28–35 [1299]	albatross, evolution, animal behavior, bird flight, soaring, natural
sev change surgery, psychology should govern 1951 Apr p 35	
sex chromatin, in female skin cells 1954 Dec p 58	animal behavior, courtship display, turkeys, pecking order, lek
sex determination, electrophoresis, spermatozoon moulity, gene	behavior, Welder Wildlife Refuge 1971 June p 112-118
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1958 Nov p 87–94	1974 Oct p 92-98
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Klinefelter's syndrome, Turner's syndrome, chromosomal anomalies,	sensitive neurons, sex hormones, sex differences, steroid hormones,
sex differences in tissue cells 1963 July p 54-62 [161]	action of hormones on nerve tissue 1976 July p 48-58 [1341]
animal behavior, hypothalamus, testosterone, physiological	lek behavior, sage grouse, natural selection, lek mating behavior in sage
psychology, sex hormones, pituitary hormones, sex differences in rat	grouse 1978 May p 114-125 [1390]
brain, effect of testosterone 1966 Apr p 84-90 [498]	human sexual response 1966 June p 54
adrenal hormones, brain circuitry, gonadal hormones, hormone-	sexual characteristics, ACTH, hormone, growth, thyroid-stimulating
sensitive neurons, sex hormones, sexual behavior, steroid hormones,	hormone, follicle-stimulating hormone, prolactin, androgens,
action of hormones on nerve tissue 1976 July p 48–58 [1341]	estrogens, secondary sexual characteristics, human physiology,
in spatial perception 1974 Nov p 50	endocrine system, chemical integrators of the body
sex hormones, steroid hormones, vitamin D, cholesterol, cortisone	
1955 Jan p 52–60 [8]	1957 Mar p 76-88 [1122] sexual recombination, population genetics, evolution, E coli, Drosophila,
	mustion speciation actual edictics, evolution, E. con, Drosophila,
animal behavior, sex differences, hypothalamus, testosterone, physiological psychology, pituitary hormones, sex differences in rat	mutation, speciation, natural selection, genetic basis of evolution
	1950 Jan p 32-41 [6]
brain, effect of testosterone 1966 Apr p 84-90 [498]	sexual reproduction, bacteriophage, genetic exchange 1948 Nov p 46-51
birth control, reproductive physiology, human population	heredity, evolution, origin of sexual reproduction 1949 Apr p 52-55
1974 Sept p 52-62	bacteria, conjugation, recombinant DNA, gene recombination,
adrenal hormones, brain circuitry, gonadal hormones, hormone-	sexuality in bacteria 1956 July p 109-118 [50]
sensitive neurons, sexual behavior, sex differences, steroid hormones,	spiders, leeches, spermatozoon transfer, sponges, bedbugs, unorthodox
action of hormones on nerve tissue 1976 July p 48-58 [1341]	methods of sperm transfer 1956 Nov p 121_132
from tomatoes 1951 May p 36	Hydra, asexual reproduction, cell differentiation, growth regulation,
sex linked traits, cytoplasmic inheritance, reciprocal crossing, maternal	carbon dioxide as 'sex gas' 1950 Apr p 145-156
inheritance, non-Mendelian inheritance, male sterility, paramecium,	fertilization, sea urchin, spermatozoon, acrosome reaction, moment of
chloroplast, plastids, cytogene, review of evidence for an extra-	icrilization 1959 July n 124_134
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color blindness, dichromatism, physiology and psychology of a vision	1977 Nov p 128–138 [1372]
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parental care, hormone 1969 June p 104-111	galactic center, Milky Way, quasars, radio source, Sagittarius A, spiral
developed countries, labor force, human population, women's status	
1974 Sept p 136-147	shad migration, animal navigation, chemotaxis, herring, homing behavior,
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developing countries, UN conference on women's role	temperature as migration control 1973 Mar p 92-98 [1268] shadow photography, shock waves, speed of sound, Mach cones,
1975 Sept p 53	
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female-role ideology, women's aspirations, attitude survey	shadow-sensitive receptors, visual perception, visual systems, scallop, surf
1972 Ian n 34-42	clam, inhibitory impulse, invertebrate 'eyes' as models for study of
sexton, abacus calculating machine, Galileo's sexton, mechanical	organization of sensation in perception 1963 July p 122–130
calculators, slide rule 1976 Apr p 101_112	singular mekury, mekury, lences, axe-handles smol ad ham had and
sexual behavior, courtship display, animal behavior 1950 July p. 52-55	nats, economic bolany, lorest natural history 1040 Contract
stickleback, courtship display, animal behavior, displacement activity,	conducts from C. V. 1. anticipator of wireless, relativity, atom bomb, a
CHOICEY 1051 Than m 33 76 141 11	report from 5 fromes ministra
bowerbirds, courtship display, animal behavior, arana bahavior	state, rosan ruci, petrolelini reserves con reserves as an organization
Australian Dowelling, natural Inston 1052 to an 10 52	and the consumption, far sands, coal liquefaction, the first
penguin behavioral adaptation, Antarctica, natural history	problem
1957 Dec p 44-51	
133, Dec h 44-31	liquid-hydrocarbon reserves 1966 Feb p 21–29
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shale rotors, oil shales, mining, energy resources, fossil fuel, oil from	maturate and the second
Situates 1053 talk at the	meteorites, exploding wire, streak photography, generation of shock waves by exploding wire 1962 May p. 102-112
Shandar Cave, Neinderthal man, human evolution. Neighbor are bestow	1962 May p 102-112
my cr my rayer, 100,000 years occuration by man 1957 More a co	tabe, ingli temperature, piasma, mechanically
shanty towns, housing, land use, population density, taxation, government regulation, urban planning, cities, control of land use	citondrites, thoudrule, primordial dust cloud, solar system, genesis of
	the solar system 1963 Oct p. 61.82
1965 Sept p. 150-16 Calcutta, cities, urbanization, caste, housing, poverty, traffic, Calcutta	
1 CIO DI IIIC 10001 10CC C 00 11	1969 May p 82-91
squatters, land use, urban sociology, housing, 'barriadas' of Luna, Per	
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shape, topology, polygons, polyhedra, tessellation, space-filling	Shoot tension. Hales plants root prossure can provide consideran
Shapped 6.14 also consequence 1954 Jan p 58-6	listory, Stephen Hales, founder of biophysics 1952 Oct p 78-82
shaped field, electromagnetism, superconductivity, magnetic bottle,	short-term memory, conditioned behavior, learning, long-term memory,
materials technology, development and applications of supermagne 1962 June p. 60-67 [279]	lobotomy, octopus, touch, sensory perception, correlation of brain
sharks, incidence of attacks on humans 1957 June p 54-6	
animal behavior, attack prevention, sensory systems, feeding behavior	b the barrens, the most of the barrens to the barre
1962 July n 60-68 t127	1966 July p 90-95 [499] unformation retrieval, learning, long-term memory, memory
shafter cones, coesite, meteorites, astroblemes, cratering, fossil Earth-	1971 Aug. p. 82-90 [538]
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erosion 1948 Nov. p. 40-4	slirinip, 'false bottom', marine biology, plankton, sonar, heteropod, deep-
sheet-metal production, circle-grid analysis, crystal structure, metal	sea scattering layer, deep-sea 'layer of life' Siamese eat, albinism, gene mutation, visual cortex, white mink, white
stamping, strain hardening, metal structure 1976 Nov p 100-108	3 tiger, cross-eyed trait 1974 May p 44-54 [1294]
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1969 Sept p 106-122 [882]	circumpolar Stone Age culture 1954 June p 82-88
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source, absorption lines clue to quasar structure 1970 Dec p 22-29 shell model, atomic nucleus, 'magic numbers', spin-orbit coupling, table	Mountains, cloth, leather and wood artifacts preserved by
of isotopes 1951 Mar p 22–26	refrigeration 1965 May p 100-109 Paleolithic culture, rock drawings, petroglyphs, Paleolithic, Neolithic
atomic nucleus, optical model, high-energy physics, liquid-drop model,	periods 1969 Aug. p 74-82 [649]
charge exchange, spin-orbit force, resonance 'particles', proton,	sickle cell disease, malaria, amino-acid substitution, anemia, hemoglobin
neutron, structure of the nucleus 1959 Jan p 75-82	1951 Aug p 56-59
nuclear fission, heavy nuclei, liquid-drop model, neutron, uranium 235,	anemia, hemoglobin S, human evolution, malaria hematology, adaptive
fission fragments 1965 Aug p 49-59 atomic nucleus, nuclear fission, charge distribution, nuclear probe,	benefits of sickle-cell anemia 1956 Aug p 87-94 [1065] erothrocyte, gene mutation, genetic disease, single gene-single
shape and size of nucleus 1969 Aug p 58-73	aminoacid deletion 1958 Jan p 68-74
shelter belts, dust storms, drought, dry-land farming, soil reclamation,	chemotherapy, cyanate, genetic disease, anemia, hemoglobin,
agricultural technology, mulch, U.S. High Plains 1948	erythrocyte 1975 Apr p 44–50 [1319]
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1969 Apr p 100-110 shipbuilding, Byzantine shipping, Rhodian sea law, underwater	mathematical sieves and their uses 1958 Dec p 105-112
archeology, shipwreck of 17th century 1971 Aug p 22–33	signal behavior, or othology, crow, animal behavior, language of crows
shipping, cargo handling, containerization, automatic control, loading, air	1959 Nov p 119-131
transport 1968 Oct p 80-88	signal processing, sound waves, communication technology, crystal surface waves, electronic equipment, Rayleigh waves, ultrasonic
shipworm, Teredo, cellulose digestion, natural history 1961 Feb p 132-142	waves 1972 Oct p 50-68
shock, traumatic shock, capillary bed, electrolyte balance, cardiovascular	signal transmission, communication technology, laser, multiplexing,
system blood transfusion 1952 Dec p 62-68	signal transmission by laser 1966 Jan p 19-27 [302]
hibernation, hypothermia, surgery, metabolism, body temperature,	silage, agricultural economics, forage crops, grasses, agronomy, hay, legumes, livestock feed, ruminants, Rhizobium bacteria
artificial lowering of body temperature for surgery and shock 1958 Mar p 104-114	1976 Feb p 60-73
homeostasis, wound shock, body fluids, emergency medicine, treatment	'silent majority', public opinion. Vietnam war 1970 June p 17-25 [656]
of shock 1958 Dec p 115-124	silica-sphere packing, diffraction, gemstones, grain structure, opai colois,
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nickel phases asteroids, origin of meteorites 1905 Oct p 20-30	heat resistance, ionic bonds, covalent bonds, nature of ceramics
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1 1	polymers, sihcon, carbon, plastics, silicon in place of carbon
and compression shock waves, high temperature, plasma, mediaments	1948 Oct p 50-53
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shock waves, shadow photography, speed of source, 1949 Nov p 14-19 aerodynamics, ballistics	tin, vanadium, list of elements essential to life lengthened to 24
aerodynamics, supersonic flight, wind funitel, molecular and 26 47	de la competalla crystals 1965 Mar p 56
high altitude aerodynamics 1958 Jan p 36-42	silicon 'chips', integrated circuits, electronic components industry,
high altitude aerodynamics sonic boom, supersonic flight, noise pollution, supersonic aircraft design, geometry of shock waves 1962 Jan p 36-43	transistor, microelectronics 1965 Nov p 56-70
decian geometry of Silver Waves	

electron optics, microcircuit fabrication, computer-controlled	skin temperature, anxiety, polygraph, lying, psychosomatic illness, guilt, breathing, pulse rate, 'lie detector' mis-named
fabrication, computer technology, integrated circuits 1972 Nov. p. 34-44	1967 Jan. p. 25–31 [503]
integrated circuits, metal-oxide semiconductors, microelectronics, transistor 1973 Aug. p. 48-57	medical diagnosis, thermography, tumor, arthritis, circulatory disorders 1967 Feb. p. 94-102
integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, microprocessors, minicomputers	skin transplants, graft rejection, immune response, biochemistry of 'self' 1957 Apr. p. 62-66
1975 May p. 32–40	Skinner box, color vision, learning, conditioned behavior, behavioral psychology, visual discrimination, pigeons conditioned to respond to
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1977 Sept. p. 62–69 [374] silicon-crystal structure, electric power generation, photovoltaic	learning, visual perception, Fechner's law, psychophysics, behavioral psychology, conditioned behavior, pigeon perception
conversion, semiconductor technology, solar cells	1961 July p. 113–122 [458]
1976 Oct. p. 34-43 silicon polymers, inorganic polymers, materials technology, polymer	skua, evolution, speciation, guillemot, melanism, ornithology, avian evolution 1957 May p. 124-134
structure, polymeric sulfur 1974 Mar. p. 66–74	animal behavior, Antarctica, ornithology, south polar skua
silk moth, gypsy moth, biological pest control, pheromones, olfactory	1964 Feb. p. 94–100 sky survey, Schmidt telescope, astronomy, the 48-inch Schmidt telescope
receptors, sex attractants, chemotaxis, communication 1974 July p. 28–35 [1299]	at Palomar Mountain 1950 Dec. p. 34–41
silkworm, insect metamorphosis, neurophysiology, insect behavior,	Palomar telescopes 1954 Aug. p. 38 skyscrapers, curtain wall, building construction, load-bearing wall
cocoon, cocoon record of silkworm spinning movements 1956 Apr. p. 131–140	1955 Mar. p. 44–48
entomology, juvenile hormone, insect metamorphosis, normone arrests development 1958 Feb. p. 67-74	wind bracing, construction technology, Eiffel Tower, cantilever, truss bridge, steel frame construction, curtain wall 1974 Feb. p. 92-105
olfaction, taste, chemical senses, insect chemoreception, comparative	slab avalanche, snow, avalanche, loose-snow avalanche
physiology 1958 Apr. p. 97–106 silt, eutrophication, water pollution, fisheries, fish population, runoff,	l 1954 Jan. p. 26-31 slash-burn agriculture, agricultural revolution, Neolithic archeology,
Great Lakes, U.S. Great Lakes' aging 1966 Nov. p. 94-104 [1056]	tools, cultural evolution, Stone Age forestry and agronomy
silver artifacts, medieval archeology, Scotland, St. Ninian's Isle, the treasure of St. Ninian's 1960 Nov. p. 154-166	1956 Mar. p. 36-41 rain-forest ecosystem, ecological fragility, tropical rain forest, fungal
silver halide, photography, emulsion, photographic development,	hyphae 1973 Dec. p. 58-67 [1286]
photochemistry 1952 Nov. p. 30-33 silver iodide, weather control, cloud seeding, Project Cirrus, condensation	slave trade, colonization, human population, human migration, immigration policy 1974 Sept. p. 92-105
nuclei, dry ice 1952 Jan. p. 17–21	slavery, agricultural revolution, Classical civilization 1949 June p. 40-43 black power, American Negro, racial discrimination, group identity,
sine-generated curve, riverbed, meanders, hydraulics, least-work path for river 1966 June p. 60–70 [869]	economic power, ethnic groups, social deprivation
singing voice, music, voice, pharynx, larynx, acoustics of singing voice 1977 Mar. p. 82-91	1967 Apr. p. 21–27 [633] SLBM: submarine-launched ballistic missile
vibrato from feedback control 1959 Mar. p. 66	SLBM, ABM, arms race, ICBM, MIRV, mutual assured destruction,
single-stranded DNA, DNA, phage X174, gene mutation 1962 July p. 109–116 [128]	counterforce strategy, strategic balance, national security 1969 Aug. p. 17-29 [330]
singularity, gravity, stellar evolution, space-time continuum, gravitational collapse, thermal pressure, gravitational radius, black hole	arms race, missile submarines, MIRV, Polaris, Trident, Poseidon
1967 Nov. p. 88–98	missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, missile submarines, SALT,
sinus node, atrioventricular node, heart contraction, heart rate, cardiac pacemaker 1967 Mar. p. 32–37 [1067]	mutual assured destruction, sonar, acoustic detection 1972 July p. 14–25 [345]
siphons, Roman technology, aqueducts, water-supply system of ancient	sleep, biological clock, body temperature, waking
sister exchange, Africa, marriage, marriage contracts 1975 Dec. p. 84–94	1952 Nov. p. 34–38 [431] hypnosis, suggestibility, physiological psychology, experiments in
size constancy, visual perception, optical illusion, distortion, pictures as objects, illusions arise from normally useful mechanisms	hypnosis 1957 Apr. p. 54-61
1968 Nov. p. 66–76 [517]	electroencephalography, brain waves, learning, conditioned behavior, correlation of brain waves to behavior 1959 Aug. p. 89–96
size perception, visual perception, 'Ames room', distance perception, motion perception, optical illusion, illusions as clues to organization	dreams, electroencephalography, REM sleep, function of dreams
of perception 1951 Aug. p. 50–55	stimulus filter 1960 Nov. p. 82–88 [460] 1969 May p. 54
skid row, emotional illness, community mental-health centers, drug addiction, psychoactive drugs, 'deinstitutionalization' of the	sleep deprivation, cerebrospinal fluid, goat experiments
emotionally ill 1978 Feb. p. 46-53 [581] skin, dermatoglyphics, hair, surface area, skin glands, thermoregulation,	humoral sleep-inducing factor 1976 Aug. p. 24–29 [571]
structure and function of human skin 1965 Feb. p. 56–66 [1003]	sleep peptide, makes sleep contagious 1974 Jan. p. 51 sleep research, dreams, electroencephalography, reticular formation,
cancer, ultraviolet radiation, melanocytes, suntanning, epidermis, vitamin D 1968 July p. 38-46	brain waves, paradoxical sleep, REM sleep, cat brain, the states of
bacteria, ectoparasites, fungi, lice, hair, human skin ecosystem	alpha waves and learning 1956 May p. 64
1969 Jan. p. 108–115 [1132] dermatoglyphics, epidermal ridges, chromosomal anomalies	effect of environment or description
ectoparasites, 'New Year Greeting' a poem by W.H. Auden occasioned	rapid-eye-movement dreaming 1960 Aug p. 73
by article in January 1969 issue 1969 Dec. p. 134	sleepwalkers, do not dream at same time 1965 July p. 49 slide rule, abacus, calculating machine, Galileo's sexton, mechanical
skin color, hyla, chameleon, catfish, chromatophores, how animals change color 1952 Mar. p. 64-67	calculators, sexton
American Negro, blood typing, recessive gene, marriage preferences,	molecular cohesion 'coppering'
hormone, pigmentation, melanin, melanocytes, melatonin	slime mold, amoebae, social amoebae, Dictyostelium acrasin, role of
skin glands, dermatoglyphics, skin, hair surface area thermoregulation	amoebae, cell differentiation, social amoebae, Digwoodslive, P
structure and function of human skin 1965 Feb. p. 56-66 [1003]	amoebae, social behavior, Dictyostelium, chemotavio company
	spatial orientation 1963 Aug. p. 84-93 [164]

acrasm, amoebae, adrenahn, social amoebae, Dictyostelium, cyclic	souring, aerodynamics, bird flight, airfoil, thermal cells
Dictyostehum, acrasm as 'social hormone' 1969 June p 78-	71
sing, war, archery, accuracy, range and lethality of shing	waves 1961 Mar p 124-13
my plantes, crystal structure, dislocations, edge dislocation, soap bubbles	bird flight flight of correct bards
1955 July p 80-87 [20 'slippery water', Toms effect: soluble polymer added to liquid	albatross, evolution, animal behavior, bird flight, sexual behavior,
slow virus infection, multiple sclerosis, mychu sheath, poliomychus,	natural history 1970 Nov p 84-93 [1204 bird flight, gliding birds, vultures, thermal cells, lift phenomena
demyermating factor, fatent viruses 1970 fully a story	1072 Dan - 102 10/
degenerative diseases, immune system, virus disease, kuru, scrapie, cancer virus, herpes virus 1974 Feb p 32-40 [1285]	other people' conspared on basis of 'Terman' sample of intellectually
slums, urban renewal, cities, housing, relocation, cininent domain, urban	gifted persons under three-decade longitudinal study 1955 Jan p 25-29 437
planning, US experience with Federal subsidy of urban renewal 1965 Sept. p. 194-20.	social amochae, amochae, slime mold. Dietyostelium acrasin, role of
sturries, pipelines, fluid dynamics, oil, gas, history and technology of	amoebae, cell differentiation, slime mold, Dictyostehum cell
smallpox, eradicated?	2 aggregation, acrasin 1959 Dec p 152-162 I acrasin, amoebae, adrenalin, slime mold, Dictyostelium, cyclic AMP
smallpox eradication, medical history, vaccination, W H O campaign 1976 Oct p 25-33	1969 June p 78-91
smallpox immunization, cowpox, medical history, variolation,	Ashanti, Tallensi, kinship, extended family, social structure, social
vaccination, 'vaccination' before Jenner 1976 Jan p 112-117 smeetle, liquid crystals, soap bubbles, cholesteric, nematic	psychology, primitive Tallensian and Ashantian kinship 1959 June p 146-158
smell, see olfaction	social psychology, Zulu peoples, war, short-lived empire of Zulu chief
smelting, steel production, blast furnace, iron ore, furnace smelting under	baboons, human evolution, social behavior, comparative psychology,
pressure 1948 May p 54-57 sing, air pollution, atmospheric inversion 1952 May p 15-19	Kung bushmen, sexual behavior, origin of society 1960 Sept p 76-87 [602]
air pollution, 'blue haze', atmospheric inversion, particulates, ozone, peroxides, photoclienistry 1955 May p 62-72	Pygmies, Congo, Bambuti, symbyotic relationship of jungle Pygmies
bronchitis, air pollution, emphysema, public health, environmental	social behavior, chicken, pecking order, sexuality and dominance
health, US cities, smog and public health 1961 Oct p 49-57 [612] air pollulion, automobile emissions, ozone, urban transport, air	1956 Feb p 42-46 [471] comparative psychology, animal behavior, prairie dogs, territorial
pollution control in Los Angeles 1964 Jan p 24-31 [618] air pollution, cities, water supply, sewage disposal, water pollution,	behavior, innate behavior, learning behavior, field observation of
taxalion, Los Angeles, New York, metabolism of cities	Portuguese man-of-war, nematocysts, coelenterate colonies
1965 Sept p 178-190 cloud seeding, water cycle, air pollution, water drop, ice crystals, fog,	1960 Mar p 158-168 baboons, human evolution, comparative psychology, social
inversion layer 1968 Dec p 74-82 [876] Los Angeles smarting 1953 Jan p 32	anthropology, Kung bushmen, sexual behavior, origin of society 1960 Sept p 76-87 [602]
smoke tunnel, ailerons, aircraft design, aerodynamics, airfoil, boundary	social evolution, human evolution, cities, urban revolution, 1800 B C
layer, low-speed flight 1956 Apr p 46-51 smoked ham, hickory, fences, axe-handles, hickory nuts, economic	ethology, gulls, comparative psychology, animal behavior, evolution,
botany, forest, natural history, shagbark hickory 1948 Sept p 40-43 smooth muscle, structure clucidated 1965 Sept p 86	reconstructing gull family tree from behavior of species 1960 Dec p 118-130 [456]
smut, antibiotics, plant disease, rot, blight, wilt disease, mold, mildew 1955 June p 82-91	baboons, comparative psychology, sexual behavior, baboon troops in their natural environment 1961 June p 62-71 [614]
snail, food, Helix pomatia, natural history 1957 Aug p 113-118	primate behavior chimpanzee tool-using, comparative psychology,
escape response, marine invertebrates, starfish, limpets, scallop, prey- predator relationship, chemical signals 1972 July p 92-100 [1254]	observation of chimpanzees in the wild 1962 May p 128-138 [463] pheromones, insect physiology, sexual behavior, queen substance,
snake, animal behavior, locomotion, herpetology, lateral, rectilinear, concerting and sidewinding modes of progression	muskone, ants, Gypsy moths, mice 1963 May p 100-114 [137]
1970 June p 82-96 [1180]	spatial orientation 1963 Aug p 84-93 [164] aggression, rats, animal behavior, territorial behavior, natural history,
heat sensors, infrared receptors, sensory organs, infrared laser, herpetology 1973 May p 94-100 [1272]	Rattus rattus Rattus norvegicus 1967 Jan p 18-63
snoring, a cure 1951 June p 35 snow, avalanche, loose-snow avalanche, slab avalanche	rhesus monkeys, urban monkeys, learning, urban and forest monkeys in India 1969 July p 108-115 [523]
1954 Jan p 26-31 ice, water, frost, supercooling, condensation nuclei, ice worms, how	social class, ghetto, racial discrimination, unemployment, urban nots public opinion, American Negro, 'riffraff theory' versus 'blocked-
water freezes 1959 Feb p 114-122	opportunity' theory 1968 Aug p 15-21 [638] social controls, Kuanyama Ambo, anthropology, murder, monarchy
avalanche control, mountains, hoar frost, types, causes and prevention of slides 1966 Feb p 92-101	1950 Oct p 52-55 social deprivation, comparative psychology, rhesus monkeys, maternal
snow crystals, water, ice, hydrogen-ion migration, hydrogen bonds, hydration, physical and chemical properties 1956 Apr p 76-89	deprivation peer group, experiments in social deprivation
crystal growth, condensation nuclei, natural and artificial condensation	black power, American Negro, racial discrimination, group identity,
crystallography, ice, crystal structure, water molecules, migrating	economic power, ethnic groups, slavery 1967 Apr p 21-27 [033]
hexagonal habit, cloud physics, bullet clusters, tsuzumi crystals,	fulfilling prophecy for disadvantaged children 1968 Apr p 19-23 [514]
variations on a theme 1952 Feb p 58-59	social discrimination, public opinion, American soldiers, attitude survey,
soap bubbles, crystal structure, dislocations, edge dislocation, sup plants	World War II, including experiments in racial integration of multary
1964 Aug p 76–85	discrimination, group behavior, child development, 'in vs out' group
hquid crystals, cholesteric, shectic, hematic area-minimizing principle, measure theory, mathematical model, mathematical surfaces, surface geometry 1976 July p 82-93	discrimination 1970 Nov b 30-102 [330]

ocial evolution, blood typing, Judaism, racial discrimination, religious persecution, genetic drift, population genetics, Jewish community of	social structure, Ashanti, Tallensi, social anthropology, kinship, extended family, social psychology, primitive Tallensian and Ashantian
Rome 1957 Mar. p. 118–128	kinship 1959 June p. 146-158 social surveys, achievement, motivation, aspiration, psychological testing,
social behavior, human evolution, cities, urban revolution, 1500 B.C. origin of cities 1960 Sept. p. 153–168 [606]	self-anchoring scale 1963 Feb. p. 41–45
ocial geography, cities, racial discrimination, American Negro,	social values, science, human value, introduction to an issue reviewing
segregation, metropolitan segregation 1957 Oct. p. 33-41 ocial indicators, child welfare, state of the child, New York City	advance of science 1900-1950 1950 Sept. p. 20-23 Mormons, Zunis, Spanish-Americans, agricultural system, Navaho,
1976 J uly p. 65	comparative study of cultures in New Mexico 1956 July p. 25-31
ocial insect, insect behavior, army ant, ants, comparative psychology,	socioeconomic background, scientists, psychological testing, social
reproduction, feedback, pheromones, trophallaxis, natural history, philosophy of science, anthropomorphism 1948 June p. 16–23	psychology, psychological study of 64 eminent scientists 1952 Nov. p. 21–25
insect behavior, animal communication, bee dances, directional	sociology, public opinion, American soldiers, attitude survey, social
orientation, 'language of the bees' 1948 Aug. p. 18-21 [21]	discrimination, studies of attitudes and morale of U.S. troops during World War II, including experiments in racial integration of military
termite, cell analogy, behavioral adaptation, insect behavior 1953 May p. 74-78	units 1949 May p. 11–15
honeybee, natural history 1955 Aug. p. 52–60	cultural evolution, anthropology, multilinear human culture changes
insect behavior, bee dances, evolution, evolutionary 'dialects' of 'language of the hees' 1962 Aug. p. 78-86	1956 May p. 69–80 public opinion, American Negro, U.S. whites, desegregation, attitude
'language of the bees' 1962 Aug. p. 78-86 insect behavior, ants, army ant, retrospective summary of work of T.C.	survey, racial segregation, longitudinal attitude study
Schneirla 1972 Nov. p. 70–79 [550]	1956 Dec. p. 35–39
ants, parasitism, pheromones, insect behavior, ant slavery 1975 June p. 32-36 [1323]	Nobel prizes, education, university education, scientific careers, sociology of the Nobel prizes 1967 Nov. p. 25-33
ants, insect behavior, pheromones, weaver ants	poverty, Mexico City, buying habits, culture of poverty
1977 Dec. p. 146–154 [1373]	1969 Oct. p. 114–124 [651] Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology
'social physics', social sciences, physical sciences, statistics, correlating social statistics and physical law 1948 May p. 20-23	1969 Dec. p. 17–25 [524]
social pressure, conformity, perception 1955 Nov. p. 31–35 [450]	communication, mass-communication media, message systems,
social psychology, competition, cooperation 1950 Apr. p. 54-56 communication, leadership, 'work patterns profiles', people in groups	television violence, cultural patterns, mass communications as social environment 1972 Sept. p. 152-160 [679]
1951 Feb. p. 26-28	sociology of science, N.S.F., peer review, research funding, university
scientists, psychological testing, socioeconomic background, psychological study of 64 eminent scientists 1952 Nov. p. 21-25	science, science policy 1977 Oct. p. 34-41 [698] sod hut, building construction, architecture, primitive architecture,
psychological study of 64 eminent scientists 1952 Nov. p. 21-25 scientists, sociability, 'Terman sample', scientists and 'other people'	climate, igloo, teepee, yurt, tent, adobe house, hogan, stilt house
compared on basis of 'Terman' sample of intellectually gifted	1960 Dec. p. 134–144
persons under three-decade longitudinal study 1955 Jan. p. 25–29 [437]	sodium-cooled reactor, fission reactor, nuclear power, breeder reactor, boiling-water reactor, homogeneous reactor, fast neutron reactor
group behavior, interpersonal relationships, conference	1954 Dec. p. 33–39
1955 Mar. p. 31-35 aggression, group behavior, pecking order, experiments in group	sodium ion potential, nerve impulse, action potential, refractory period, nodes of Ranvier, nerve membrane 1952 Nov. p. 55-65 [20]
behavior 1956 Nov. p. 54–58 [154]	electric fishes, electroplaques, neurophysiology, synapse, acetylcholine,
interpersonal relationships, self-disclosure, idiosyncracy in self- disclosure 1958 May p. 77-82	animal behavior, nerve impulse, bioluminescence 1960 Oct. p. 115-124
adolescence, conformity, interpersonal relationships, U.S. teenage	sodium pump, giant axon, squid, nerve impulse, nerve cells, 'voltage
attitudes 1958 June p. 25-29 Ashanti, Tallensi, social anthropology, kinship, extended family, social	clamp' technique 1958 Dec. p. 83-90
structure, primitive Tallensian and Ashantian kinship	kidney lubule, membrane potential, active transport, cell membrane, biological pumps 1962 Aug. p. 100-108
1959 June p. 146-158	SOFAR: sound fixing and ranging
Zulu peoples, war, social anthropology, sbort-lived empire of Zulu chief Sbaka 1960 Apr. p. 157–168	SOFAR, underwater communication 1952 May p. 38 software, computer technology, U.S.S.R., Comecon, integrated circuits
group behavior, conformity, buman subjects, group pressure,	1970 Oct. p. 102~108
experiments in susceptibility to group pressure 1961 Dec. p. 45-51 fallout shelters, civil defense, arms race, counterforce strategy, social	soil, moon surface, robot lander, Surveyor spacecraft, surface sampler
impact of fallout shelters 1962 May p. 46-51 [637]	1967 Nov. p. 34-43 soil conditioners, humus, polyacrylates, polyvinylites, cellulose, tiltb
buman behavior, cognitive dissonance, experiments in preperception 1962 Oct. p. 93-102 [472]	1953 Aug n 36_38
education, poverty, group behavior, rural poverty, community action,	soil erosion, rain drop, elutriation, sheet erosion, micromechanics of soil erosion 1948 Nov. p. 40–45
emotional illness, study of community regeneration 1965 May p. 21–27 [634]	soil structure, chernozems, podzols, latozols, tundra, alluvial soils
intelligence, race, whites, 10, heredity, American Negro, heredity,	agronomy, ecology of soil, the soils of the world and their management 1950 July p. 30-39
population genetics, science policy, twins, environment, racial	irrigation, agricultural technology, poverty, economic development
aspirations of Rhodesian youth 1957 Jan. p. 60	afforestation, Mediterranean Project, United Nations 1960 July p. 86-103
leadership and social aloofness 1957 Oct. p. 62	numan population, food production, fertilizers, pollution, imparion
social sciences, 'social physics', physical sciences, statistics, correlating social statistics and physical law 1948 May p. 20–23	biosphere, agricultural revolution, biosphere capacity to produce
economics, mathematical model, decision theory, mathematics in	sand dune classification, dust storms, habooh 1976 Oct = 100 114
economics and other social sciences 1964 Sept. p. 168~182 National Science Foundation 1961 Jan. p. 78	soil minerals, plant nutrition, plant roots, root pressure, transport
U.S. Government 1968 Oct p. 58	mechanisms 1973 May p. 48-58 [1271] soil molds, fungi, carnivorous plants, nematodes, carnivorous fungi
social status, public opinion, voters' attitudes, voting behavior, correlation analysis, ethnic groups, income, family, 'votes in the	1050 1.1. (7.70 1.00 1.
making' 1950 Nov. p. 11-13 primate behavior, monkey, Japanese macaques, primate societies,	son ponunon, DD1, herbicide, gamma radiation, X-ray, soil ecology
protocultural behavior 1976 Oct. p. 96–106 [1345]	son recumination, dust storms around it and forming and to
ot p. x [1.545]	technology, mulch, sheller belts, U.S. High Plains 1948
	1948 Aug. p. 7-11

son structure, chernozems, podzols, latuzols, tundra, alluvial sons,	Sun colorections amounts as a second
agronomy, ecology of soil, soil crosion, the soils of the world and	Sun, solar cchpse, tunosphere, chromosphere, ultraviolet radiation,
meir management 1950 toba = 30.70	Earth-Sun chromosphere-ionosphere interaction
energy cycle, introgen fertilizer, nutrient cycle, food and aericulture	1962 Feb p 50-59
1000 Ciliiii 1076 Cont n 74 06	flare stars, radio astrunomy, radio star, Jodrell Bank radio telescope,
solger reaction, amocode, cell, cytology, high pressure, offer, of high	definitive evidence of radiowaves from stars 1964 Aug. p 13-19
pressure un centular activity 1958 Oct p. 36-43	lunar lununescence, moon, solar radiation, Kepler crater, meteonies,
amoebae, phagocytosis, cell motility, eytoplasmic streaming, front	impact of solar prutons? 1965 Vlay p 28-37
contraction theory of amocboid motion 1962 Feb p 112-122 [182]	cosmic radiation, interplanetary fields, interplanetary particles,
solar astronumy, airborne solar photography 1957 Sept p 107	magnetosphere, solar wind, aurora, Van Allen belts, solar system
solar atmosphere, solar corona, zodiacal light, Van Allen belts, solar	1975 Sept p 160-173
prominences, ionospheric storms, Earth in the Sun's atmosphere	solar gravitation, aimospheric tides, lunar gravitation 1954 May p 36-39
1050 O	solar magnetism, magnetic field. Zeeman effect, sunspots, manning
1959 Oct p 64-71 magnetism, Sun cycle, phutosphere,	changes in solar magnetic field 1960 Feb p 52-62
chromosphere, 11-year solar cycle explained 1966 Nov. p 54-62	magnetic field, Sun cycle, photosphere, chromosphere, solar
Sun support receives a solar cycle explained 1966 Nov. p 54-62	atmosphere, 11-year solar cycle explained 1966 Nov p 54-62
Sun, sunspots, rotation, magnetic field, eddies, solar atmospheric	neutrino, solar corona, solar energy, Sun, sunspots 1975 Sept p 42-50
	comes and goes 1955 May p 56
sular battery, solid state physics, semiconductor, photoelectric effect,	magnetic pole reserval 1959 Dec p 82
energy transformation 1955 Dec p 102-110	solar navigation, animal navigation, bee, crustacea 1954 Oct p 74-78
solar cells, energy transformation, energy demand, fuel-conversion	solar neutrino detector, cosmic radiation, solar radiation, neutrino,
efficiency, power, prime movers, steam turbines,	thermonuclear reaction, neutrino detection experiment and
magnetohydrodynamics, gas turbine, internal combustion engine,	predictions 1969 July p 28-37
fuel cell, power, nuclear power, comparative efficiencies uf energy	solar neutrinos, neutrino, cosmic radiation neutrinos, intermediate vector
transformation pathways in industrial civilization	boson, scintillation counter boson, detection of natural neutrinos
1971 Sept p 148-160 [668]	1966 Feb p 40-18
electric power generation, photovoltaic conversion, semiconductor	missing 1972 June p 33
technology, silicon-crystal structure 1976 Oct p 34-43	nussing neutrinos explained 1975 Aug. p 47
solar collectors, solar energy, light absorption, pigments, energy	more neutrinos counted 1976 May p 52
conversion 1956 June p 97–106	solar observatory, placed on orbit 1962 Apr p 75
solar corona, heat, thermonuclear reaction, stellar interiors, hydrogen	solar particles, artificial satellite, cosmic radiation, telemetry, Van Allen
bomb, proton-proton interaction, helium reaction, ultrahigh	belts, geomagnetism, radiation belts, space exploration, mapping of
temperatures 1954 Sept p 144-154	radiation belts by Explorer satellites 1959 Mar p 39-47 [248]
solar prominences, solar flares, ionosphere, atmosphere, coupling of	cosmic radiation, geomagnetism, galactic magnetism, galactic
solar and terrestrial atmospheres 1958 Aug p 34-41	accelerator theory 1960 June p 64-71
zodiacal light, Van Allen belts, solar prominences, solar atmosphere,	solar physics, carbon 14 abundance, climate, ice ages, Maunder
ionospheric storms, Earth in the Sun's atmosphere	minimum, sunspots, dendrochronology 1977 May p 80-92 [925]
1959 Oct p 64-71	solar prominences, heat, plasma, magnetohydrodynamics, shock tube,
aurora borealis, solar wind, Earth magnetic field, Van Allen belts,	very high temperatures 1954 Sept p 132-142
comet tails, magnetic storms 1964 Apr p 66-76	solar corona, solar flares, ionosphere, atmosphere, coupling of solar
chromosphere, corona, eclipse phenomena, photosphere, Sun	and terrestrial atmospheres 1958 Aug p 34-41
1973 Oct p 68–79	solar corona, zodiacal light, Van Allen belts, solar atmosphere,
neutrino, solar energy, solar magnetism, Sun, sunspots	ionospheric storms. Farth in the Sun's atmosphere
1975 Sept p 42-50	1959 Oct p 64-71
solar wind, space exploration, waves in solar wind 1977 Mar p 36-43	solar radiation, climate, volcanoes, dust, world climate and volcanic
solar eclipse, orbital motion, Earth, moon 1954 Feb p 36-40	activity 1952 Apr p 74-80 [845]
Sun, tonosphere, solar flares, chromosphere, ultraviolet radiation,	climatic change glaciation, solar evolution and terrestrial climate
Earth-Sun chromosphere-ionosphere interaction	1958 June p 85-92 [633]
1962 Feb p 50-59	comet Halley's comet, physics of comet tails 1958 Oct p 44-50
solar energy, light-to-heat conversion, photovoltaic conversion,	Antarctica climatology atmospheric circulation, albedo, Antarctica in
photosynthesis, limitations and prospects of solar power	Farth's heat budget 1962 Sept p 84-94 (657)
1950 Aug p 16-21	artificial satellite, geomagnetism, Lorentz force, magnetosphere, van
energy resources, residential heating, windows, low-potential energy.	Allen belie radiation belts aurora physics of Van Allen belts
hot water, Sun can supply most of the 30 percent of fuel energy	1963 May p 84-90
consumed in domestic heating 1951 Feb p 60-65	atmospheric circulation, meteorology, weather, upper atmosphere,
Earth, atmospheric circulation, Earth rotation, circulation of the	balloon and rocket observations 1964 Mar p 62-74
atmosphere 1955 Sept p 114-124	lunar luminescence, moon, Kepler crater, solar flares, meteorites,
light absorption, pigments, energy conversion, solar collectors	impact of solar protons? 1965 May p 28-37
1956 June p 97–106	aurora borealis, geomagnetism, ionosphere, magnetosphere, solar wind, physics of the aurora 1965 Dec p 54-62
ecology, energy cycle, biomass, food chain, element abundance,	physics of the aurora 1965 Dec p 34-62
autotrophs heterotrophs the ecosphere 1938 Apr p 83-92	convection currents, plants, thermoregulation, thermal radiation, transpiration, energy transfer, heat transfer in plant leaves
energy consumption, energy resources, fission fuels, power, fossil fuel,	1965 Dec p 76-84 [1029]
fusion fuels, geothermal energy, tidal energy	airglow, atmosphere, ionosphere, ozone, oxygen atoms, upper
[971 Sept p 60-70 [663]	atmosphere, laboratory simulation, atomic energy levels
energy conservation, nuclear power, fossil fuel, synthetic fuels, energy	1966 Mar p 102-110
-ology of 11 S 1974 Jan p 20-29 [004]	architecture, sunlight, lighting, building construction, glass
neutring solar corona, solar magnetism, Sun, sunspots	1968 Sept p 190-202
1973 Sept p 42-30	Jacob appossible Farth magnetic field, geomagnetism, barrum
captured by chlorena 1053 Nov. p. 52	clouds, magnetosphere, electric field, artificial plasma clouds from
the long view	1968 Nov p 80-92
photovoltaic cell	readiation peutrino, solar neutrino delector, thermonuclear
	reaction, neutrino detection experiment and predictions
solar flares, Sun, ionospheric storms, autora, sanspots, geomagaette	1969 July D 28~37
storms	wind, energy cycle, biosphere, albedo, atmospheric circulation, climate, ocean circulation, terrestrial radiation, carbon dioxide 'window',
solar corona, solar prominences, ionospheres 1958 Aug p 34-41	ocean circulation, terresular radiation, carbon dio data mindon,
solar and terrestrial atmospheres 1958 Aug p 34-41	Farth energy cycle 1970 Sept p 54-63 [1189]

photosynthesis, biosphere, agricultural ecosystem, climax ecosystem,	Galileo, Jupiter, Jovian satellites, Europa, Callisto, Ganymede, Io 1976 May p 108-116
energy cycle, ecosystem, food chain, respiration, biosphere energy	asteroid orbit between Mercury and Sun 1949 Sept p 29
cycle 1970 Sept p 64–74 [1190]	Venus, Sputnik VIII Venus probe 1961 Apr p 74
biosphere, energy cycle, photosynthesis, respiration, power, radiation energy, terrestrial radiation 1971 Sept p 88–100 [664]	Barnard's star may be a 'sun' 1962 June p 73
solar radio output, radio astronomy, radio map of Galaxy, extragalactic	outer planets, Pioneer 10 mission 1972 Jan p 46
radio waves, status and expectations of the new astronomy	solar system chemistry, chondrites, element formation, planets, space
1949 Sept p 34-41	exploration, stellar evolution 1974 Mar p 50-65
solar rotation, aurora, magnetic storms, sunspots, cone of avoidance,	solar system evolution, meteorites, meteorite dust, ocean sediments, 'cosmic spherules' in ocean sediments 1960 Feb p 123-132
solar wind, corpuscular streams, cycles in 'solar wind' 1955 Feb p 40-45	cosmic radiation, cosmogenic helium, meteorite radioactivity,
	spallation of meteorites 1973 July p 64–73
sunspots, Sun structure, solar spectrum 1975 Apr p 106–114 solar spectrum, Sun, carbon cycle, thermonuclear reaction, sunspots,	comet, galactic formation, nebular hypothesis, stellar evolution
nearest star 1948 Nov p 26–39	1975 Sept p 32–41
sunspots, Sun structure, solar rotation 1975 Apr p 106-114	cratering, meteorite bombardment, planetary ages, cratering of four
no carbon 13 1951 June p 31	inner planets as key to solar-system history 1977 Jan p 84-99 [351] triggered by supernova? 1978 Jan p 66
n-times ionizations 1954 June p 46	solar system formation, albedo, asteroids, meteorites, planetisimal
solar spicules, Earth, aurora, airglow, corpuscular streams, nightglow, aurora and airglow 1955 Sept p 140–150	collisions, primordial dust cloud 1975 Jan p 24–33
solar still, distillation, water, desalination, ion exchange, alternative	solar variations, Sun as variable star 1975 Mar p 49
technologies 1957 Mar p 37-45	solar wind, aurora, magnetic storms, sunspots, cone of avoidance, solar
solar system, Sun, cosmology, dust cloud hypothesis, gravity, light	rotation, corpuscular streams, cycles in 'solar wind' 1955 Feb p 40-45
pressure, gravitational collapse, thermonuclear reaction, genesis of	climate, weather, ionosphere, meteorology, coronametry, Earth's
solar system 1948 May p 35-45 binary stars, stellar evolution 1949 Oct p 42-45	weather and solar wind 1957 Apr p 138–148 [849]
binary stars, stellar evolution 1949 Oct p 42-45 astronomy, philosophy of science, galactic clusters, universe, planetary	Antarctica, Earth magnetic field, 'whistlers', upper atmosphere, aurora,
motion, cosmology, introduction to single topic issue on the universe	atmosphere magnetic field-solar wind interaction
1956 Sept p 72-81	1962 Sept p 74–83 [858]
isotope dating, radioactive decay, meteorites, Earth crust, age of solar	aurora borealis, solar corona, Earth magnetic field, Van Allen belts, comet tails, magnetic storms 1964 Apr p 66-76
system 1957 Apr p 80–94 [102]	comet tails, magnetic storms 1964 Apr p 66-76 artificial satellite, geomagnetism, magnetosphere, aurora,
Neptune, orbital motion, Pluto, Pluto as escaped Neptunian satellite 1959 Apr p 86-100 [295]	magnetometer, orbital motion 1965 Mar p 58-65
radio telescope, radar astronomy, radio astronomy, steerable 600 ft	aurora borealis, geomagnetism, solar radiation, ionosphere,
telescope 1960 Jan p 45-51	magnetosphere, physics of the aurora 1965 Dec p 54-62
interferometry, moon, planets, ionosphere, radar astronomy,	interplanetary space, Mars, Mariner 4, magnetosphere,
technology and promise of radar astronomy 1960 Aug p 50-59	micrometeorites, trapped radiation, atmosphere, cosmic radiation, space exploration 1966 May p 62-72
meteorites, relative isotope abundance, age of solar system 1960 Nov p 171-182 [253]	Apollo samples, carbon chemistry, moon, cosmology
astronomical unit, space exploration, Venus probes, Doppler effect,	1972 Oct p 80–90
radar, Earth-Sun distance more precisely measured	cosmic radiation, interplanetary fields, interplanetary particles,
1961 Apr p 64–72	magnetosphere, solar flares, aurora, Van Allen belts, solar system
Jupiter, Venus, planets, radio astronomy, measuring planetary surface temperature 1961 May p 58-65	1975 Sept p 160–173 solar corona, space exploration, waves in solar wind
chondrates, chondrale, primordial dust cloud, shock waves, genesis of	1977 Mar p 36–43
the solar system 1963 Oct p 64-82	to be made visible in cloud of banum ions 1962 Apr p 77
calendar, planetary motion, time, heliocentric theory, year, astronomy,	radar observation of sun 1965 Feb p 54
Copernicus, astronomy, Copernicus, length of calendar year 1966 Oct p 88–98	solid stars, gravitational collapse, neutron stars, pulsar, stellar evolution, white dwarfs, ultradense matter 1971 Feb p 24-31
Martian topography, Mariner 9 results, Martian atmosphere, planets,	solid-state electronics, computer, automatic control, analog-to digital
space exploration, polar cap, 'braided' channels, dune fields,	conversion, digital computer, analogue computer, the universal
photomosaic, volcanoes on Mars 1973 Jan p 48–69	machine 1952 Sept p 116–130
Copernicus, planetary motion models, Tycho Brahe, science history, Tycho's notes in de Revolutionibus 1973 Dec p 86-101	crystal structure, X-ray crystallography, metals, semiconductor, nonmetals, materials technology, amorphous solid, electrical
Tycho's notes in de Revolutionibus 1973 Dec p 86-101 comet origins, cometary structure, exotic molecules, primordial dust	conductivity 1967 Sept p 80–89
cloud, Comet Kohoutek 1974 Feb p 48–57	carrier-wave generator, communication technology, crystal structure
carbonaceous chondrites, chondrites, meteorites, primordial dust cloud	diode laser, laser, heterostructure lasers, light-emitting
1975 Feb p 30-38 planets, space exploration, Sun, introduction to single topic issue on	semiconductor 1971 July p 32-40 telephone, electronic telephone, integrated circuits, telephone based on
the solar system 1975 Sept p 22-31	integrated circuits 1978 Mar p 58–64 [3002]
Mercury, planets craters, Mariner 10 mission 1975 Sept p 58-68	tunnel diode 1959 Sept. p. 106
planets, Earth, Venus, cratering, Venutian atmosphere	solid-state lasers, Raman laser effect, gas laser, diode junction laser, laser
Earth evolution, plate tectorics, erosion 1975 Sept p 70-78 1975 Sept p 82-90	technology in rapid development 1963 July p 34-45 [294] light emitting diode, semiconductor, laser, electron beam, junction
lunar evolution, lunar rocks, moon, Apollo missions	diode 1967 May p 108~122
1975 Sept p 92-102	solid state physics, transistor, vacuum tube, electronics, germanium
dust storms Mars, terrestrial planets, cratering, tectonic processes,	diode, triode, dawn of solid-state electronics 1948 Sept. p. 52-55
mountain formation, erosion, hydrology 1975 Sept p 106-117 Great Red Spot, liquid planets, Jovian moons, atmospheric circulation,	crystal structure, X-ray diffraction, ionic bonds, covalent bonds, metallic bonds, molecular bonds, energy levels, the nature of solids
Jupiter 1975 Sent p. 118–126	1952 Dec. p. 39_49 12491
Neptune, outer planets, Pluto, Saturn, Uranus 1975 Sept p 130-140	solar pattery, semiconductor, photoelectric effect, energy
asteroids, meteorids, moons, planetisimals 1975 Sept p 142-159 cosmic radiation, interplanetary fields, interplanetary particles,	transformation 1955 Dag = 102 Lto
magnetosphere, solar flares, solar wind, aurora, Van Allen belts	crystal structure, neutron, radiation, nuclear fission, effects of radiation
1975 Sant n 16/1-173	invention, creativity, industrial research, applied science, Ball
Jupiter, Jovian meteorology, planetary atmosphere, planets, Great Red Spot	Laboratories solid-state physics 1050 Cont. 116 100
1976 Mar p 46–56	addition, metals, crystal structure, displacement of crystal
	Structure by radiation 1959 Sept p 200-213

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particle detector, particle physics, senticonductor, particle accelerator,	plename mode of the con-
remediation particle-delicity 1067 (3.1 p. 70 pp. 17p.	
carbon, polyethylene, spheruhtes, plastics, crystallography	the string internal organs by diffasound
1964 No 60 c	1978 May p 98-112 [1389] soughfirds, bird song, continunteation, syrinx, mechanism of sound
electric field, Guin effect, interough cities on negative entre men	sound sound in the communication, sylmx, mechanism of sound
electromes, gaining arsenide, solid state microwave generation	sonic boom, supersonic fleely short years now a little and
1966 Aug. p. 223	arcraft design, geometry of shock waves 1962 Jan p 36-43
argon, crystal structure, cryogenics, noble gases, solid noble gases	directalt design, geometry of shock waves 1962 Jan p 36-43 deconnuties, supersonic flight, commercial directal, aircraft design,
1966 Oct p 64-7.	4 aviation industry, technology and economics of supersome transport
crystal structure, hehum, zero-point monon, quantum solid, solid	10C4 Suna n 25 25
helium, physical and theoretical properties 1967 Aug p 81-9.	5 'sound barrier', aviation, rocket engine 1953 Oct p 36-41
ntaterials technology, crystal defects, epitaxial growth, surface	sound diffraction, architectual acoustics, sound waves, auditonums, wave
chemistry, precipitation in solids, 'doping', chemical properties of	dCOUNTES, SOuth Interference, a quete na acharation, affects a
materials 1967 Sept p 210-220	management of sound in public buildings and dwellings
heat, diffusion, thermal waves, second sound, cryogenics, wave	1963 Nov p 78-92
propagation, phonon, helium, thermal waves in solid helium	sound energy, heat conduction, cryogenics, phonon, thermoelectneity,
1970 May p 92-101 autimatter, crystal structure, gamma radiation, gravitational	quantum mechanics of heat conduction 1962 Dec p 92-104 [288]
interaction, positron probes, sciningraph 1975 July p 34-42	sound fixing and ranging, see SOFAR
interaction, positron probes, semigraph 1975 July p 34-42 superfluidity, helium 3, haund phase, gas phase, quantum effects,	
quantum fluids, phase transitions 1976 Dec p 56-71	wave acoustics, sound diffraction, acoustic reverberation, elective
solids, explosions, shock waves, materials technology, phase transitions	
1969 May p. 82-91	1963 Nov p 78-92
solitary insects, Australia, behavioral adaptation, ecology, insect	
behavior, sand wasps, Bembix 1975 Dec p 108-115	electronic circuitry, noise 1959 June p 118-129
solitary wasps, insect evolution, predatory wasps, species specificity,	music, tape recorders, speech grammaphones, auditory perception, engineering of sound systems 1961 Aug p 72-84
predator-prey relationship, parasitism, behavioral clues to evolution	sound spectrogram, frog calls 1950 May p 46-47
1963 Apr p 144-154	
Solutrean culture, Upper Paleohthic hunting peoples, stone tools, tool	voice analysis, acoustic analysis, speech quality of mental patients
inventories, France, 21,000 years ago 1964 Aug p 86-94	1965 Mar p 82-91 [492]
solvated electrons, ammonia, radiolysis, ionization, radiation chemistry,	communication, crying, infant behavior, neonatal disorder, mother
sodium, alkali metals 1967 Feb p 76-83	child interaction 1974 Mar p 84-90 [558]
alkali-metal amons, alkali-metal cations, cryptands, electron orbitals,	disparaged as identification method 1969 Dec p 54
quantum mechanics 1977 July p 92-105 [368]	sound spectrography, cardiology, heart, heart sounds, electronic analysis
solvation shell, laser, liquid lasers, rare-earth ions, chelate cage,	of heart sounds 1956 May p 120-130
comparison of liquid, gas and solid-state lasers 1967 June p 80-90	sound vibrations, auditory beats, brain, hearing, neurology, auditory
somatic cell nucleus, cell differentiation, nucleus transplantation, clone,	perception 1973 Oct p 94–102 [1282]
genetic engineering, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128]	sound-wave pressure, light, radiation pressure, photophoresis, analogy
somatic cells, cancer, tissue culture, drug research, clone, technique and	and distinction, light- and sound-wave pressure 1957 June p 99-108
uses of ussue culture 1956 Oct p 50-55	sound waves, phrasonics, kilomeoacycle waves, acoustic waves at optical
clone, HeLa cancer cells, cell culture, tissue culture, single human cells	wavelength 1963 June p 60-00
1957 Aug p 91-100 [33]	architectual acoustics, auditoriums, wave acoustics, sound interference,
aging, fibroblasts, mitosis, cell culture, cell, DNA replication,	sound diffraction, acquistic reverberation, effective management of
experiments in aging 1968 Mar p 32-37 [1103]	sound in public highlings and dwellings 1963 Nov p 10-32
cell hybridization, gene mapping, hybrid cells, mouse-human hybrid	feedback, vortex, edge tone, aerodynamic whistles, hole tone, whistles,
cells 1974 July p 36-44 [1300]	flutes, organs and rocket engines 1970 Jan p 40-46
cancer, SV40 virus, gene transformation, chromosome mapping, tissue	communication technology, crystal surface waves, electronic
culture, hybrid cells, genetics of human cancer	equipment, Rayleigh waves, signal processing, ultrasonic waves 1972 Oct p 50-68
1978 Feb p 117–125 [1381]	acoustic holography, laser, interference, holography, acoustic imaging.
sonar, ocean floor, seismology, sedimentary cores, Albatross voyage, isotope dating, Swedish deep sea expedition 1950 Aug p 42-45	nondestructive testing, medical diagnosis 1969 Oct p 36
bat sonar, animal navigation, ultrasonic signal, bat navigation	South America. New World archeology, stone tools, early man in New
demonstrated in laboratory 1950 Aug p 52-55	World, 12,000 B C 1967 Nov p 44-30
'false bottom', marine biology, plankton, shrimp, heteropod, deep-sea	Southern pine, resource management, gene manipulation, grafting
scattering layer, deep-sea 'layer of life' 1951 Aug p 24-28	techniques, forestry, tree farming, seed orchard concept 1971 Nov p 94-103
ocean floor, topography, Aleutian Trench, seamounts, fathogram,	19/1 Nov p 37-100
echo-sounding, the Pacific floor 1952 Apr p 19-33	Southern sky, Clouds of Magellan, galactic center, nebulae, globular cluster stars. Eta Carina, astronomical riches of the southern sky
guacharos, bird navigation, 'oil birds' 1954 Mar p 78-83	1952 July p 46-57
ultrasonics, interferometry, emulsification nondestructive testing	Harriard and s Boyden 1953 Apr p 44
blue whale, krill, food chain, whaling, natural history of the largest	Boyden station saved 1955 Aug p 48
animal 1956 Dec p 46-50	Soviet Union see USSR
bathymetry, gravimetry, ocean floor, continental shelf, sedimentary	soybean products, legumes, nitrogen fixation, agronomy plant protein
normal Lamont Geophyscial Observatory 1936 Dec. p. 83-94	1974 Feb p 14-21 space age, tribute to Robert H Goddard 1960 Sept p 106
andstory discrimination, bats, bat sonar, echo-sounding, sensory	space age, tribute to Robert H Goddard 1960 Sept p 106 space curvature, cosmology, universe evolution, 'big bang' theory
1938 July D 40-47 [1141]	universe, according to Gamow 1956 Sept p 136-154
echo-sounding, ocean floor, plankton, deep-sea scattering layer, photo	infinity relativity theory, universe as finite or infinite
1702 July p 44 50	1976 Aug p 90-100
bats, predator-prey relationship, moths, auditory perception, ultrasound, moth sonar detection of bat ultrasound	space exploration, Earth satellite, orbital motion 1955 Dic p 29-33
	artificial satellite, orbital motion, satellite, Sputnik, tracking station,
t warfare, missile submarines, SALT,	inst at interactive solar particles, cosmic radiation, iclemetry. Van
	Allen helts, geomagnetism, radiation bells, mapping of fadiation
mutual assured destruction, SEBIA, accession 1972 July p 14-25 [345]	belts by Explorer satellites 1959 Mar p 39-47 [248]

artificial satellite, orbital motion, Mercury, re-entr	v vehicle ablation	gravity, stellar evolution, gravitational collapse, thermal pressure,
	1961 Jan p 49–57	singularity, gravitational radius, black hole 1967 Nov p 88–98
re-entry corridor, re-entry from space ion propulsion, plasma jet, jet velocity, cesium-ion	-	spacecraft, interplanetary navigation, orbital motion, rocket,
magnetohydrodynamics, electrical propulsion	1961 Mar p 57-65	communication technology, navigation, technology of space
solar system, astronomical unit, Venus probes, Do		navigation 1960 Mar p 64–73
Earth-Sun distance more precisely measured	1961 Apr p 64-72	artificial satellite, Mars, space exploration, Mariner 4, telemetry,
Mariner 2, telemetry, Venus, navigation, orbital n		spacecraft navigation 1966 Mar p 42–52
resolution studies of Venus	1963 July p 70-84	moon surface, lunar geology, cratering, lunar exploration, structure,
lunar exploration, moon, lunar surface, spacecraft		history, origin of moon from nine spacecraft visitations
missions	1966 Jan p 52–67	1967 Mar. p 60–74
artificial satellite, Mars, Mariner 4, telemetry, spa		spacecraft design, lunar exploration, moon, space exploration, lunar
spacecraft	1966 Mar p 42–52	surface, Ranger missions 1966 Jan p 52-67
Mars, computer enhancement, telemetry, television		spacecraft navigation, artificial satellite, Mars, space exploration, Mariner
graphics, Mariner IV photographs, Martian top	nography	4, telemetry, spacecraft 1966 Mar p 42-52
graphics, Mariner 17 photographs, Marian 19	1966 Apr p 54-68	interplanetary navigation, Mars, navigational accuracy, Viking
interplanetary space, Mars, Mariner 4, magnetosp		missions 1976 June p 58–74
micrometeorites, trapped radiation, atmospher	e, solar wind, cosmic	Spanish-Americans, social values, Mormons, Zunis, agricultural system,
radiation	1966 May p 62-72	Navaho, comparative study of cultures in New Mexico
moon, lunar surface, telemetry, high-resolution pl		1956 July p 25-31
Orbiter space missions	1968 May p 58-78	spare tire, fuel consumption, jettison the 'Fifth wheel'? 1978 Apr p 88
Mars, Venus, atmosphere, atmospheric difference		spark chamber, particle accelerator, cloud chamber, bubble chamber,
Apollo project, lunar evolution, lunar magnetism	magnetometers on	particle tracks 1962 Aug p. 36–43
moon	1971 Aug p 62-73	high-energy physics, storage rings, synchrotron, particle accelerator,
Apollo project, lunar evolution, lunar rocks	1971 Oct p 48-58	colliding beam accelerator 1966 Nov p 107–116 [323]
Martian topography, Mariner 9 results, Martian		spark machining, innovation from Hungary 1950 July p 26
solar system, polar cap, 'braided' channels, du	ne fields, photomosaic,	spatial frequency, contrast perception, visual perception, visual thresholds
volcanoes on Mars	1973 Jan p 48-69	1974 Nov p 106~114 [1308]
astrochemistry, interstellar matter, molecular spe		spatial memory, memory, brain organization, hippocampal system, rats
	1973 Mar p 50-69	1977 June p 82–98
chondrites, element formation, planets, solar syst		spatial orientation, bird navigation, animal navigation, bird migration,
evolution	1974 Mar. p 50-65	celestial navigation by birds 1958 Aug p 42-47 [133]
planets, solar system, Sun, introduction to single	-topic issue on the	kinesthetic memory, visual perception, neuropsychology, perception of
solar system	1975 Sept p 22-31	the upright 1959 Feb p 50-56 [410]
solar corona, solar wind, waves in solar wind	1977 Mar p 36-43	kinesthetic memory, sensory perception, sensory feedback, plasticity in
extraterrestrial life, Mars, Viking lander experim	ents	sensory-motor systems in man and cats 1965 Nov p 84-94 [494]
19	77 Nov p 52-61 [389]	spatial perception, psychology, learning, innate behavior, perceptual
mice aboard Aerobee	1952 May p 38	learning, innate vs acquired space perception 1956 July p 71–80
the notion decried	1952 Dec p 30	special relativity, quantum mechanics, atomic structure, high-energy
Harvard-Smithsonian	1955 July p 52	physics, science, physics 1900-1950 1950 Sept p 28–31
special relativity, twin paradox	1957 July p 68	Pythagorean theorem, time, clock paradox 1963 Feb p 134–144
Sputnik, first man made satellite	1957 Nov p 66	ether drift, luminiferous ether, speed of light, interferometry,
threat of space probes to 'origin of life' study	1958 Aug p 48	Michelson-Morley ether-drift experiment 1964 Nov p 107–114
pollution of space	1958 Dec p 53	Cerenkov radiation, high-energy physics, tachyons, speed of light,
Soviet rocket on orbit around Sun	1959 Feb p 58 1959 Feb p 64	hypothetical particles faster than light 1970 Feb p 68-77 space exploration, twin paradox 1957 July p 68
24-nation U N committee resume of U S program	1959 Apr p 62	space exploration, twin paradox 1957 July p 68 test for constancy of speed of light reduces uncertainty to 001 Earth's
diet in space	1959 June p 82	orbital velocity 1960 Mar p 84
USSR-USA satellites aloft	1959 Nov p 86	positron annihilation confirms constancy of velouty of light
Pioneer V, Tiros, Transit 1-B data	1960 May p 88	1963 May p 77
US-USSR. competition	1960 July p 79	young Einstein's paradox 1975 Aug p 48
Pioneer V fades out	1960 Sept p 108	speciation, population genetics, evolution, E coli, Drosophila, mutation,
US and USSR programs	1960 Oct p 82	sexual recombination, natural selection, genetic basis of evolution
a 'C E.R N ' for space	1960 Nov p 90	1950 Jan p. 32-41 [6]
USSR orbits dog	1960 Nov p 98	species specificity, antigen-antibody reaction, determination of 'blood
international cooperation	1962 Apr p 74	relationships' 1951 July n. 59-63
US-USSR discuss collaboration	1962 May p 74	Darwin's finches, Galapagos Islands, evolution
review of first five years	1962 Nov p 68	1953 Apr p 66–72 [22]
Year of the Quiet Sun	1963 Jan p 60	Lysenkoism, Lamarck, acquired characteristics, genotype, evolution
after Apollo, what?	1967 Apr p 50	phenotype, mutation, ostrich calluses, religion, orthodoxy,
US 1970's program recommendations Jupiter	1970 May p 54	Darwinism, experiments in acquired characteristics
space-filling, topology, shape, polygons, polyhedr	1971 Oct p 44	1953 Dec p 92–99
rate mang, topology, snape, polygons, polynedi	1954 Jan p 58-64	evolution, guillemot, skua, melanism, ornithology, avian evolution
space flight, Yuri Gagarin on orbit	1961 May p 74	l957 May p 124-134 birds, geographical distribution, ornithology, behavioral adaptation,
space medicine, acceleration, g-forces, weightlessi	ness, semicircular canals.	bird migration, adaptation, provinciality of birds
black-out	1951 Jan p 16-19	
acceleration, human physiology, manned space	flight, weightlessness.	1957 July p 118–128 camouflage, evolution, melanism, moths, air pollution, population
human centrituge, g stress	1962 Feb p 60-70	genetics, mutation, genetic variation, evolution observed
space 'mirror', US project West Ford	1961 Oct p 80	1950 Mar n 49 52 (942)
'Space Rapture', Copernican revolution, English		annual octiavior, guils, evolution, sexual behavior, innate behavior
space technology, nuclear propulsion, ion propul	77 June p 120–129 [367]	ethology species discrimination, Larus, eye rings
rocket propulsion by nuclear reactions		1967 Oct = 01 102 (1994)
Space-line continuum, gravitation, wave-particle	1959 May p 46-51	continental diff, leptile evolution, tadiation, genetic continents
quantum mechanics, uncertainty principle, I	PAM Dirac view of	Condwaniatard, Laurasia, mammalian evolution, supercontinent
physics	1963 Viay p 45-53	breakup and animal diversification 1969 Mar p 54-64 [877]

species dispersion, aerial plankton, animal inigration, insect physiology.	-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
agricultural pest, entomology, wind-borne dispersal of species	subdistarf stars bluer because more to the first evolution,
continental drift, tossil record, evolution, plate tectories	1961 June p 111-120
species extinction, fossil record, natural selection, glaciation, fossil record, natural selection, glaciation,	cryogenic pump, mass, vacuum down to 10 mm of mercury
'catastrophism', crises in the history of life 1963 Feb p 76-92 [86] species isolation, Death Valley, desert pupfish, fish, endangered species	stellar rotation, Doppler effect, stellar evolution, violet shift, red shift,
species specificity, extinction, adaptation, natural selection, evolutionary	
radiation, ecological niche, 'Is ni tii here to stay?' 1950 Nov p 52-5	dionic nucleus fast neutrons nuclear mecha neutron construction
antigen-antibody reaction, speciation, determination of blood	quasars, recession velocity, cosmological distance, red shift, whether
relationships' 1951 July p 59-6 agricultural pest, corn borer, insect behavior, corn, adaptation of	materials technology, color, photoelectric effect, laser, transparency,
parasite to host 1958 May p 87-9 insect evolution, predatory wasps, solitary wasps, predator-prey	optical proporties of materials 1967 Sept p 238-248 elementary particles, energy levels, atom, nucleus, high energy physics,
relationship, parasitism, behavioral clues to evolution	1968 May p 15-19
1963 Apr p 144-15- bee dances, insect behavior, directional orientation, evolution,	Girard grid, interferometry 1968 Sept. p. 72-82 aging, radiation damage, free radicals, electron-spin resonance
communication by sound, by dancing 1967 Apr p 96-104 [107] insecticide, balsam-fir factor, insect hormones, insecticide resistance,	cliemical bond, effects of free radicals on living systems 1970 Aug. p. 70-83 [335]
juvenile hormone, DDT, ilurd-generation pesticides 1967 July p 13-17 [1078]	Doppler effect, red shift, quasars, shell hypothesis, radio source,
evolution, proteins, computer analysis, cytochrome, anuno-acid substitution, phylogeny from amino-acid substitution	arrglow, atmospheric ionization, atmospheric light, photochemistry 1972 Jan p 78-85
fruit fly, sexual behavior, releaser stimulus, courtship song, insect	Doppler effect, energy levels, gas laser, laser spectroscopy
behavior 1970 July p. 84–92	, , , , , , , , , , , , , , , , , , , ,
spectrograph, speech synthesis, talking computers, vocal truct, Voder 1972 Feb p 48-58	nucleochronology, radioactive nuclei, stellar evolution, supernovae 1974 Jan p 69-77
spectroheliograph, artificial satellite, ultraviolet radiation, ultraviolet astronomy, Sun 1969 June p 92-102	stellar evolution, supernovae, supernovae observed in other galaxies 1976 Dec. p. 89-101
spectrometry, balloon astronomy, Venus, infrared astronomy 1965 Jan p 28-37	electromagnetic spectrum, electron manipulation, electron storage rings, synchrotron radiation, X-ray lithography, X-ray probe uses of
extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, moon, history and recent results of infrared	synchrotron radiation 1977 June p 32-41 [303] echelle for diffraction 1953 Apr p 46
astronomy 1965 Aug p 20-29	'match-light' potassium line 1967 Nov p 60
spectrophotometry, color vision, retina, cone cells, pigments, ganglion	speech, language, dialects, American languages, linguistics, changes in US speech 1950 Jan p 48-51
cells, three-color receptor system 1964 Dec p 48-56 [197] spectroscopy, radar, microwaves, molecular bonds, coherent radiation,	American languages, palatalization, changes in American speech
resonance absorption, energy levels, quantum jumps, quantum	1955 Aug p 78-83
electrodynamics, time-keeping, foundation of maser, laser technology 1948 Sept p 16-23	communication, human evolution, language, origin of speech 1960 Sept p 88-96 [603]
meteorites, radio echo, ion cloud 1951 June p 22–28	behavior facial expression, vocal display, nonverbal communication,
comet, orbital motion, comet tails, composition and origin of comets	facial expression in communication 1965 Oct p 88–94 [027]
1951 July p 22–26	brain damage, writing, brain hemispheres, cerebral cortex, functional organization of the brain 1970 Mar p 66-78 [526]
quantum mechanics, Planck, science history, black body, resonators, Einstein, photoelectric effect, Compton effect, quantum jumps	speech disorders, aphasia, brain damage, Broca's area, language [1972 Apr p 76-83 [1246]
1952 Mar p 47-54 [205] diffraction grating, ruling engine, Strong engine, Rowland engine, the	speech errors, grammar, language organization, linguistics, spoonerisms, syntactic rules 1973 Dec p 110-117 [556]
ultimate machine 1952 June p 45-54 painting, art restoration, X-ray, microchemistry, science in the art	speech grammaphones, music, sound reproduction, tape recorders, auditory perception, engineering of sound systems
museum 1952 July p 22-27 mass spectroscopy, separation techniques, ion beam	1961 Aug p 72-84
1953 Mar p 68-74	speech perception, attention mechanism, hearing, cochlea, phonetics neuropsychology, hearing two messages at a time
flame chemistry, chemical kinetics, flash tube, ram jet, heat, velocity, luminosity 1953 May p 29-35	1962 Apr p 143-151 [467] auditory illusions, hearing, perception, phonetics, illusions, psychology,
cosmology, red shift, universe expansion, universe, galaxies, recession velocity, galactic clusters, observational cosmology	illusions as clues to organization of perceptual apparatus 1970 Dec p 30-33 [531]
1956 Sept p 170-182 [240] klystron, microwaves, molecular rotation, laboratory applications of	speech recognition, computer technology, Voder, sound spectrogram 1955 Feb p 92-98
microwaves 1957 May p 46-53 radio astronomy, hydrogen, absorption line, interstellar matter, 21-	speech synthesis, talking computers, vocal tract, spectrograph, Voder 1972 Feb p 48-58
centimeter wave absorption 1957 July p 48-55 magnetic resonance, nuclear magnetic resonance, magnetic resonance, magnetic resonance, magnetometer,	spend of light analysisal constant, measurement 1955 Aug p 62-67
molecular structure, large molecule spectroscopy 1958 Aug p 58-66 [233]	ether drift, luminiferous ether, special relativity, interferometry, Michelson-Morley ether drift experiment 1964 Nov p 107-114
photolysis, photochemistry, chemical reaction, reaction kinetics, free	Cerenkov radiation, high energy physics, tachyons, special relativity, hypothetical particles faster than light 1970 Feb p 68-77
radicals, color centers, ingli operations, photon, quantum jumps,	subatomic distances 1967 Sept p 102 speed of sound, shock waves, shadow photography, Mach cones,
technique and uses of optical pumping 1960 Oct p /2-80	1949 NOV D 14-19
technique and uses of optical pumping galactic yardstick, stellar distances, calcium absorption lines supply new 'yardstick' 1961 Jan p 107-119	spermatozoon, fertilization, sea urchin, acrosome reaction, sexual reproduction, moment of fertilization 1959 July p 124-134
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cell anatomy, ovum, virus, science history, cytology, muscle cell, plant	brain hemispheres, cerebral dominance, perception, corpus callosum,
cell, connective tissue cell, introduction to single-topic issue on the	intelligence, language, localization of brain function
living cell 1961 Sept p 50–61 [90]	1967 Aug p 24–29 [508]
	split-style art, cultural differences, visual perception, cultural context of
	perception, Hudson test 1972 Nov p 82–88 [551]
spermatozoon count, male fertility, birth control, ovulation timing	
1950 May p 16–19	sponge iron, direct-reduction processes, iron ore, iron melting, steel
spermatozoon motility, electrophoresis, sex determination, gene	production 1976 July p 68–80
manipulation, sorting out Y-bearing sperm by electrophoresis	sponges, spiders, leeches, spermatozoon transfer, sexual reproduction,
1958 Nov p 87–94	bedbugs, unorthodox methods of sperm transfer
spermatozoon nucleus, leukocyte, nucleus, DNA, Miescher, chromatin,	1956 Nov p 121–132
hereditary material, discovery of DNA 1968 June p 78–88 [1109]	spoonerisms, grammar, language organization, linguistics, speech errors,
nereditary material, discovery of DNA 1908 June p 70-08 [1109]	
spermatozoon transfer, spiders, leeches, sponges, sexual reproduction,	
bedbugs, unorthodox methods of sperm transfer	in action as well as word 1977 Jan p 49
1956 Nov p 121–132	sports, athletics, running records, forecasting by extrapolation
sphere, mathematics, topology, differential topology, torus, everted	1952 Aug p 52–54
sphere proof 1966 May p 112–120	Greek civilization, Olympic games, Iliad account 1968 Aug p 78-85
spherulites, carbon, polyethylene, plastics, solid state physics,	footracing, human physiology, athletics, psychology, metabolism,
crystallography 1964 Nov p 80–94	running records, Aesop principle 1976 June p 109–119
sphinx moths, 'cold-blooded' animals, ectotbermy, metabolism,	physics of skiing 1956 Jan p 52
between Mandura cavia	running dynamics, athletics, foot pressure measured 1967 Mar p 57
heterothermy, insect flight, temperature regulation, Mandura sexta	
warm-up mechanisms 1972 June p 70–77 [1252]	sports medicine, baseball leads fatalities 1951 Oct p 40
spider webs, drug action, animal behavior, abnormal behavior	acclimatization, Olympics at 7,450 feet altitude 1968 Jan p 51
1954 Dec p 80–86	springtail, surface tension, water-strider, backswimmer, whirligig beetle,
arachnid, spiders, evolution, orb web 1960 Apr p 114-124	ecology, aquatic insect, insects of the water surface
spiders, leeches, spermatozoon transfer, sponges, sexual reproduction,	1978 Apr p 134-142 [1387]
bedbugs, unorthodox methods of sperm transfer	spruce, forestry, climax ecosystem, balsam, birch, climax forest of
1956 Nov p 121–132	Northeast U S 1948 Nov p 20–23
	Sputnik, artificial satellite, orbital motion, satellite, space exploration,
animal behavior, predator-prey relationship, Arachnida, social spiders	
1976 Mar p 100-106	space exploration, first man-made satellite 1957 Nov p 66
spin, proton spin, high energy physics, 'strong' force, electron scattering,	satellite, Sputnik II results 1957 Dec p 58
dependence of nuclear forces on spin 1966 July p 68–78	satellite, Sputnik I results 1958 Apr p 50
spin-orbit coupling, atomic nucleus, shell model, 'magic numbers', table of	satellite, Sputnik I results 1958 July p 49
1951 Mar p 22–26	sputter-ion pump, spectroscopy, vacuum, ultra-high vacuum, oil diffusion
spin-orbit force, atomic nucleus, shell model, optical model, high-energy	pump, cryogenic pump, mass, vacuum down to 10 12 mm of mercury
physics, liquid-drop model, charge exchange, resonance 'particles',	1962 Mar p 78–90
proton, neutron, structure of the nucleus 1959 Jan p 75-82	sputtering, chemical accelerators, molecular beam, ion beam, high-energy
spinal cord, maintained in vitro 1949 June p 27	
Spinal refleves, and descend refleves and determine ""count" cate (1.2	
spinal reflexes, conditioned reflex, reflex conditioning, "spinal" cats (i e	squall lines, weather, thunderstorms, wind, jet stream, low-altitude jet
with resected spinal cords) walk' 1950 Nov p 20-22	streams 1961 Aug p 120–131
spinning technology, artificial fibers, natural fibers, textile fibers, yarn	squatters, shantytowns, land use, urban sociology, housing, 'barriadas' of
1972 Dec p 46-56	Lima, Peru 1967 Oct p 21–29
spıral arms, Milky Way, nebulae, globular cluster stars, dust clouds,	squid, cephalopods, giant axon, nerve impulse 1951 Apr p 64-69
galactic center, seeing a galaxy from the inside 1950 Feb p 30-39	giant axon, nerve impulse, sodium pump, nerve cells, 'voltage clamp'
stellar populations, galactic structure, stellar classification and	technique 1958 Dec p 83–90
structure of galaxies 1958 Nov p 44-50 [203]	Srinivasa Ramanujan, mathematics history, number theory, obituary by
radio astronomy, galaxy, interstellar hydrogen, mapping the spiral	G H Hardy 1948 June p 54–57
arms of the local Galaxy 1959 Dec p 92-104	St. Ninian's Isle, medieval archeology, Scotland, silver artifacts, the
Faraday rotation, galactic magnetism, starlight polarization, spiral	
galaxies, stiffening of spiral arms by Milky Way magnetic field	
1965 June p 46-54	St. Venant body, rheology, flow of matter, Hooke body, Newton body,
spiral galaxies, Milky Way, interstellar hydrogen, radio astronomy	how solids flow 1959 Dec p 122–138 [268]
	stability, control theory, mathematics, cybernetics, computer
1955 May p 42-48	programming, feedback, frequency response, dynamic programming,
Clouds of Magellan, radio astronomy, galactic structure, resolution of	'policy' concept 1964 Sept p 186-200
structure of nearest galaxies 1956 Apr p 52-58	stable isotopes, periodic table, 'synthetic' elements, transuranium
galaxy, stellar evolution, universe, stellar populations, distribution of	elements, table of elements, isotopes, first of a series of articles
'population l' and 'll' stars in local Galaxy 1956 Sept p 92-99	recounting the completion of the table of elements (43 freehnetum)
gravitational collapse, galactic evolution, barred galaxy, elliptical	61[promethium], 85[astatine] and 87[francium]) and the first five
galaxies, evolution from taxonomy 1956 Sept p 100–108	transuranic elements (93[neptunium], 94[plutonium], 95[americium],
galactic evolution, elliptical galaxies, origin and history from shape	96[curium] and 97[berkelium]) 1950 Apr p 38–47 [242]
_ 1963 Jan p 70-84	96[curium] and 97[berkelium]) 1950 Apr p 38–47 [242] staining techniques, brain circuitry, microscopy, nerve signals, nerve
Faraday rotation, galactic magnetism, starlight polarization, spiral	structure officerory outcome Coloradory, nerve Signais, nerve
arms, suffening of spiral arms by Milky Way magnetic field	structure, olfactory system, Golgi stain, Nissl stain
1965 June p 46-54	1971 July p 48–60 [1227]
galactic center, Milky Way, quasars, radio source, Sagittarius A,	stairs, architecture, stride, walking 1974 Oct p 82–90
	standard expectancy method, Hutterites, mental health, psychosis,
spiral growth, crystal growth, screw dislocation, loop growth	epidemiology 1953 Dec. p. 21 27 (440)
	standard of length, interferometry, mercury 198, interference fringes
spiral structure, interstellar hydrogen, radio astronomy, galaxy, galactic	10.18 Aug n 49 52
	standards of measurement, physical constants, measurement, adoptive of
Spirit Cave site, Hoabinhan culture, Neolithic archeology, agricultural	right, electron mass, particle charge, least-squares method, planel 's
	constant, Rydderg constant 1970 Oct p. 62 79 (227)
split-brain experiments, cert brail cost and 1972 Apr. p. 34-41 [675]	inch and pound redefined
split-brain experiments, cerebral cortex, mammalian brain, corpus	Stanford Linear Accelerator Center, electron accelerator linear
callosum, brain hemispheres, monkey, cat, human post operative subject 1964 Jan p 42–52 [174]	accelerator, klystron tube, two-mile Stanford Linear Accelerator
	Accelerator

Stanhupe demonstrator, logic machine, Boolean algebra, symbolic logic,	
3/108i3iii3 1053 Mar n 40 m	steel production, blast furnace, iron orc, smelting, furnace smelting under
staffing tocuccus, nospital infections, antibiutic resistance, revival of	1948 May p 54-57
classical aseptic routines 1959 Jan, p. 41–45	Continuous Casting metallurgical anguage
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1997 telat p. 10	OVYRED INICCION, open boarth furnace, have assessed
synthetic penicillin 1959 May p 78 synthetic penicillin 1961 Apr. p 80	1968 Apr p 24-31
staphylococcus septicemia, antibiotics, antibiotic resistance, toxicology	processes, from ore, from menting, sponge from
oxidative phosphorylation, cause of death from staphylococcal	Norwegian plant near Arctic Circle 1949 June p 28
inicetion 1968 Feb p. 84_0.1	USSR tries oxygenation of blast furnaces 1949 Sept. p. 28
starfish, escape response, marine invertebrates, limpets, scallop, prey- predator relationship, shail, chemical signals	rolling plus bending 1964 May p. 64
1972 July p. 92–100 [1254]	roasting tacomie with scrap 1966 June p 56
Startight, why it twinkles 1950 Feb n 27	continuous-process plant 1968 Aug p 46 by basic-oxygen (L-D) process 1975 Mar p 49
starlight polarization, Faraday rotation, galactic magnetism, spiral	Stein's paradox, batting averages, estimation theory, statistics, approach
galaxies, spiral arms, stiffening of spiral arms by Milky Way	of averages to norm 1977 May p 119–126 [363]
magnetic field 1965 June p 46-54 Starling, cardiology, 'Law of the Heart', biography of Ernest Starling	stelae cult, New World archeology, Maya cermonial center, Brush
1951 Oct. p. 56-61	Honduras, Lubaantun, Pusilha sites 1972 May p 82-91
cardiology, heart metabolism, 'Law of the Heart', venous catheter	stellar aberration, Earth, orbital motion, Gamma Draconis, discovery of stellar aberration by James Bradley 1964 Mar p 100-108
study 1957 Feb. p. 50-54	stellar anatomy, globular cluster stars, stellar evolution, Red Giant stars,
Starlings' hypothesis, lymphatic system, intercellular fluid, lymph nodes,	stellar modeling, main-sequence stars, H-R diagram, age of cluster
lymph vessels, lymph ducts, lymphatic circulation, lymphedema, the body's 'second circulation' 1963 June p. 80-90	stars 1970 July p 26-39
starvation, diet, fasting, human nutrition, metabolism, kwashiorkor,	stellar associations, galaxy, stellar evolution, massive stars, nebulae, massive stars are short-lived 1956 Feb p 36-41
marasmus, physiology of starvation 1971 Oct. p 14-21 [1232]	stellar cluster, interstellar gas, pleiades, stellar evolution, mass and
states of matter, synthetic diamonds, high pressure, carbon phases,	motion in and of clusters, clues to formation
thermodynamics 1955 Nov. p 42–46	1962 Nov p 58-66 [285]
statistical sampling, quality control, sequential analysis, probability 1953 Mar. p 29-33	stellar composition, variable stars, organ-pipe analogy, stellar brightness 1975 June p 66-75
statistical seriation, New World archeology, mound builders, agricultural	stellar distances, galactic yardstick, spectroscopy, calcium absorption
revolution, Mississippian culture, pre-Columbian Mississippi valley	lines supply new 'yardstick' 1961 Jan p 107-119
on verge of urban revolution 1952 Mar p 22-27	stellar energy, thermonuclear reaction, proton-proton interaction, carbon
statistics, 'social physics', social sciences, physical sciences, correlating social statistics and physical law 1948 May p 20-23	cycle 1950 Jan p 42-45 stellar evolution, binary stars, solar system 1949 Oct p 42-45
mode, median, sampling, sequential sampling 1952 Jan p 60-63	stellar evolution, binary stars, solar system supernovae, Crab Nebula 1949 Oct p 42-43 1949 Dec p 18-21
information theory, thermodynamics, noise, redundancy, digital	astronomy, galaxies, red shift, galactic recession, universe expansion,
storage media, analogue storage media, information compression,	science, general relativity, astronomy 1900-1950 1950 Sept p 24-27
automatic control, information 1952 Sept p 132-148	color, short-lived stars, main sequence 1953 Mar p 34-37 stellar populations, galactic rotation, galactic evolution, fundamental
probability, mathematical proof, fundamental reasoning, fundamental research, What is probability? 1953 Sept. p. 128-138	research, Why do galaxies have spiral form? 1953 Sept p 89-99
mathematics, probability, combinatorial analysis, normal curve,	galaxy, massive stars, nebulae, stellar associations, massive stars are
Brownian motion, Markov chain, Pascal's triangle, probability	short-hved 1956 Feb p 30-41
theory 1964 Sept p 92–108	thermonuclear reaction, element abundance, universe, isotopes, 'synthetic' elements, particle accelerator, experimental astrophysics
archeology, coins, numismatics, Taxila hoard, India 1966 Feb p 102-111	1956 Sept p 82-91
batting averages, estimation theory, Stein's paradox, approach of	galaxy, universe, stellar populations, spiral galaxies, distribution of
averages to norm 1977 May p 119-126 [363]	'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99 extraterrestrial life, main-sequence stars, binary stars, probability of
steady-state universe, cosmology, energy transformation, universe, according to Hoyle 1956 Sept p 157-166	extra terrestrial life calculated from astronomical numbers
according to Hoyle 1956 Sept p 15/-166 steam distillation, essential oils, oleoresins, vacuum distillation, flavors,	1960 Apr p 55-63
perfumes 1953 Aug p 70-74	globular cluster stars, dwarf stars, H-R diagram, spectroscopy,
steam engine, mine drainage, technology history, Watt, pumps, Industrial	subdwarf stars bluer because poorer in heavy elements 1961 June p 111-120
Revolution, Newcomen engine, origins of steam engine 1964 Jan p 98-107	interstellar was, pleiades, stellar cluster, mass and motion in and of
steam turbines, electric power generation, ship propulsion, turbine blade	clusters, clues to formation 1962 Nov p 38-00 [267]
design, construction of turbines, applications, history	stellar rotation, Doppler effect, spectroscopy, violet shift, red shift, correlation of rotational velocity with mass 1963 Feb p 46-53
1969 Apr p 100-110 energy transformation, energy demand, fuel-conversion efficiency,	Clouds of Magellan, galaxy, ultraviolet radiation 1964 Jan p 32-41
power, prime movers, magnetohydrodynamics, gas turbine, internal	pehulae Orion nebula, ultraviolet radiation, hydrogen density, dating
combustion engine, fuel cell, solar cells, power, nuclear power,	interstellar bodies 1965 Feb p 90-101 gravity, space-time continuum, gravitational collapse thermal pressure.
comparative efficiencies of energy transformation pathways in	singularity gravitational radius, black hole 1967 Nov p 88-98
and anthropology human evolution, climate, human migration,	udal effects, gravitation effects, contact binaries, binary stars, stellar
nonulation genetic variation, ancient migration and numer	fission 1968 June p 34-40 globular cluster stars, Red Giant stars, stellar modeling, main-sequence
[900 3501 0 112-127 [004]	stars, H-R diagram, stellar anatomy, age of cluster stars
diversity steel, materials technology, transformation-induced plasticity, strength, 1968 Nov p 36-45	1970 July p. 26–39
ducting authorized structure, ausform process, materials technology,	Crab Nebula, neutron stars, pulsar, radio source, gravitational collapse, angular momentum 1971 Jan p 48-60
heat-treating for strength 1963 Aug p 72-82	gravitational collapse, neutron stars, pulsar, solid stars, white dwarfs,
steel frame construction, wind bracing, skyscrapers, construction	ultradanse matter 19/1 Feb D 24-31
technology, Eillel Tower, canthever, truss arrange, 1974 Feb p 92-105	celestial energy, cosmological 'hangups', energy cycle, power, radiation energy, entropy per unit energy, gravitational energy, thermonuclear
steel markets, iron ore, coal reserves, transportation, changing geography 1952 Jan p 44-53	energy 19/1 Sept p 30-39 [662]
of steel	infrared astronomy 1973 Apr p 28-40

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spectroscopy, age of elements, age of universe, element formation, mass spectroscopy, nucleochronology, radioactive nuclei, supernovae	vitamin D, sex hormones, cholesterol, cortisone 1955 Jan p 52-60 [8] cell receptors, endocrine hormones, gene regulation, bormonal action, protein synthesis 1976 Feb p 32-43 [1334]
1974 Jan p 69-77 chondrites, element formation, planets, solar system chemistry, space	adrenal hormones, brain circuitry, gonadal hormones, hormone-
exploration 1974 Mar p 50-65	sensitive neurons, sex hormones, sexual behavior, sex differences, action of hormones on nerve tissue 1976 July p 48-58 [1341]
comet, galactic formation, nebular hypothesis, solar system evolution	action of hormones on nerve tissue 1976 July p 48–58 [1341] total synthesis 1951 June p 30
1975 Sept p 32-41 black hole, interstellar gas, magnetohydrodynamics, neutron stars,	as anestbetic 1955 Aug. p 49
pulsar, supernovae, X-ray sources 1975 Dec p 38-46	total synthesis 1955 Sept p 76
supernovae, spectroscopy, supernovae observed in other galaxies	acetate start in material 1957 Mar p 72
1976 Dec p 89–101	act by gene activation 1972 Mar p 42
black hole, binary stars, galactic energetics, globular cluster stars,	stick-slip friction, friction, bearing, violin bow, lubrication, uses and
neutron stars, X-ray stars, astronomy satellites, 'bursters'	prevention of friction 1956 May p 109-118 shickleback, courtship display, animal behavior, sexual behavior,
1977 Oct p 42-55 [385] interstellar matter, supernovae, shock waves, gravitational collapse,	displacement activity, ethology 1952 Dec p 22–26 [414]
stellar formation, birth of massive stars 1978 Apr p 110-118 [3005]	stillbirths, some found seasonal 1951 Apr p 35
stellar formation, galaxy structure, interstellar matter, Milky Way,	stilt house, building construction, architecture, primitive architecture,
supernovae, galactic dust clouds, nebulae, Gum Nebula, Bok	climate, igloo, teepee, yurt, tent, sod hut, adobe house, hogan
globules 1972 Aug p 48–61	1960 Dec p 134-144 stimulated emission, maser, nucrowave amphfication, quantum
Bok globules, gravitational instability, interstellar clouds, interstellar dust, local galaxy 1977 June p 66-81 [366]	mechanics, coherent radiation, principles and uses of maser
interstellar matter, supernovae, shock waves, gravitational collapse,	1958 Dec p 42-50 [215]
stellar evolution, birth of massive stars 1978 Apr p 110-118 [3005]	laser, maser, coberent radiation, first lasers as 'optical masers'
in Orion nebula 1955 Nov p 49	1961 June p 52-61 [274]
interstellar matter, variable stars, infrared radiation, lithium, youngest stars? 1967 Aug p 30	stimulus localization, brain circuitry, mammalian brain, nerve signals, sensory systems, visual perception, superior colliculus in integration
stars? 1967 Aug p 30 stellar interiors, heat, thermonuclear reaction, bydrogen bomb, solar	at brain function 1972 Dec p 72-82 [553]
corona, proton-proton interaction, helium reaction, ultrahigh	Stirling cycle, cryogenic technology, refrigeration, hot-air engine, closed
temperatures 1954 Sept p 144–154	cycle, displacer 1965 Apr p 119–127
stellar magnetic fields, cosmic radiation, radio emissions,	Stirling engine, Philips air engine, heat engines, external combustion
megnetohydrodynamics, electrical induction, electricity in space 1952 May p. 26-29	engines, bot-air engine 1948 July p 52–55 automobile engines, external combustion engines, engine efficiency
stellar modeling, globular cluster stars, stellar evolution, Red Giant stars,	1973 Aug p 80–87
main-sequence stars, H-R diagram, stellar anatomy, age of cluster	Stjerneborg, observatory, astronomy, scientific instrumentation, Tycho
stars 1970 July p 26-39	Brahe, science history, 16th century Hven observatory
stellar populations, Palomar Observatory, cosmology, red shift, interstellar matter, galactic evolution, Hale telescope, first yield from	1961 Feb p 118-128 Stockholm, land use, urban planning, cities, land ownership, urban
200 incb telescope 1952 Feb p 43–51	renewal, Stockholm as a planned city 1965 Sept p 106-115
stellar evolution, galactic rotation, galactic evolution, fundamental	Stokes law, insect flight, aerodynamics 1958 Dec p 92-98
research, Why do galaxies have spiral form? 1953 Sept. p 89-99	stomach mucosa, digestion, hydrochloric acid, alcobol, aspirin, self-
galaxy, stellar evolution, universe, spiral galaxies, distribution of 'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99	digestion safeguards 1972 Jan p 86–93 [1240] stomatopods, animal behavior, mantis shrimps, marine life
spiral arms, galactic structure stellar classification and structure of	1976 Jan p 80-89
galaxies 1958 Nov p 44–50 [203]	Stone Age civilization, Greek prehistory, Neolithic archeology, Franchthi
stellar rotation, Doppler effect, stellar evolution, spectroscopy, violet	Cave 1976 June p 76-87
stuft, red shift, correlation of rotational velocity with mass 1963 Feb p 46-53	Stone Age hunters, organic rehes peat bog, Neolithic archeology 1952 May p 20-25
stellar shift, artificial satellite, relativity theory, Mercury, electromagnetic	Arctic, Alaska, Siberia, Greenland, Dorset culture, circumpolar Stone
frequency shift, perihelion shift, clock paradox, general relativity,	Age culture 1954 June p. 82–88
testing Einstein's general theory of relativity 1959 May p 149–160 stellar temperature, photocell, light amplification, photomultupher,	stone artifacts, New World archeology, Onion Portage site, Eskimo,
variable stars, interstellar matter 1952 Mar p 56–59	Bering land bridge, human migration, Alaska, gateway to America 1968 June p 24-33
stellerator, fusion reactor, nuclear power, magnetic bottle, plasma	West Indies, New World archeology, Hispaniola, island chains, sea
confinement, deuterium, tritium, magnetic pumping	routes, seafaring hunters from Central America?
1958 Oct p 28-35 stereochemistry, olfactory nerve sensory perception, olfaction,	stone heads, Easter Island, Polynesian culture 1949 Feb p 50-55
stereochemical theory of odor perception 1964 Feb p 42–49	stone heads, Easter Island, Polynesian culture 1949 Feb p 50-55 stone tools, New World archeology, Folsom man, Cochise culture
stereogram experiments, binocular vision, random-dot stereograms	1951 Feb p 15-19
vision, visual perception 1976 Mar p 80-86 [569] stereoisomers, catalysis, polymers, materials technology, industrial	human evolution, Olduvai Gorge, toolmakers, man-apes, hand axes
chemistry, synthesizing giant molecules 1957 Sept. p 98–104	1954 Jan p 66-71 science history, Neanderthal man, Devon caves, human evolution, idea
catalysis, polymers, materials technology, industrial chemistry,	of man's antiquity 1959 Nov. p. 167, 176
synthesizing giant molecules 1957 Nov p 98–104 catalysis, lithium, polymerization, promotion of polymerization by	istinia, Paleonthic culture, cultural archeology, Old Stone Age site in
lithium 1963 Jan p 88–102	Africa 1961 Oct. p 118-129 anthropology, Paleolithic culture, obsidian, Andes, El Inga site,
stereopsis, binocular vision, depth perception eye, neurophysiology,	prehistoric man in the Andes 1963 May = 116 120
optic chiasm, visual cortex 1972 Aug. p 84-95 [1255]	Solutrean culture, Upper Paleolithic hunting peoples, tool inventories
'stereoregular' polymers, polymers, isotactic polymers, polyethylene, catalytic polymerization, polypropylene, precisely constructed	France, 21,000 years ago 1064 Avg = 06 04
polymers 1961 Aug p. 33_41 [315]	aborigine, Paleolithic man, dingo, Tasmanian devil, Australian aborigine, antiquity of man in Australia 1966 Mar p. 84-93 [628]
stereoscopic images, pattern recognition, visual perception, computer graphics, texture discrimination, depth perception	New World archeology, South America, early man in New World
1065 Eah = 20 40 (210)	12,000 B C
sternization, biological pest control screw worm fix V-ray mass control	tool assemblages, multivariate analysis factor analysis community
cattle, eradication of the screw worm fly 1960 Oct p 54-61 steroid hormones, schizophrenia, stress, adrenal gland	analysis, Paleolithic archeology, Bordes method, stone tools as fossils of behavior 1969 Apr p 70-84 [643]
1949 July p 44–47	Paleolithic campsite, huts, structures from 300,000 years ago
consult by stated	1969 May p 42-50

cave dwellers, Peru, human evolution, Ayacucho site	Steamer chimber bease and to
1971 Apr = 26	streamer chamber, linear accelerator, track detectors, pulse generator, new particle detector 1987 Oct. p. 38-46
commac, Europe, mining, Paleolithic settlements 1076 E. L go	1907 Uct p 38-46
thindie, cultural evolution, hunter-gatherer societies, Nile prehistory,	Strength materials technology start transformation 1934 Feb p 64-68
Patentials 1976 Aug p 30-	ductility and ductility
Paleolithic culture, Kalambo Falls site Australopithecus, toolmaker 1958 July p 1974 Aug p 1974 Aug p	10 SIRUDIOCOCCUS, Aschoff hodges shown the force information
Market at a second of the seco	10 ICODORSC, fight disease hungronestunts 1005 to 00 to
Stonelieure, radio urban danna buda 1998 Jan. p	a possible vaccine 1966 Dec. p. 65
Stonellenge, radiocarbon dating, built 4,000 years ago, 2,000 years before Druids	
Neolithic archeology, woodhenges, henge monuments, Britain	infectious disease, the antibiotic revolution 1952 Apr. p. 49-57
1970 Nov p 30-3	bacteria, gene transformation, drug resistance, pneumococcus,
Sarsen carvings 1953 Dec p 5	- The state of the
storage mode, liquid crystals, display devices, dynamic scattering,	
television receiver 1970 Apr n 166_16	isoniazid, isotopes, tuberculosis, para-aminosalicylic acid,
storage rings, high-energy physics, synchrotron, particle accelerator	6 pharmacology, tracing action of TB drugs 1956 Nov p 135-144 antibiotics, protein synthesis, genetic code, ribosome, DNA, RNA,
colliding beam accelerator, spark chamber	mutation, 'misreadings' induced by antibiotic alterations of
1966 Nov p 107-116 [323	ribosomes 1966 Apr p 102-109
antimatter, electron-positron annihilation, I particle, psi particle,	on market 1952 Sept p 74
charm, color, quark, high-energy physics, virtual particles	made safer 1955 Dec p 50
1975 June p 50-6	
straight line, mathematics, Euclidean geometry, geometry, curved line, reach and limits of axiomatic approach 1956 Mar p 104-11-	stress, hypertension, atheroselerosis, angiotensin, etiology and care of
reach and limits of axiomatic approach 1956 Mar p 104-11- strain gauge, obstetrical labor, uterine muscle, measurement of forces in	
uterine muscle at delivery 1950 Mar p 52-53	psychosomatic illness, alarm reaction, kidney disorder, cardiovascular
earthquake prediction, laser, interferometry, Earth crust	Salar Land Courter
1969 Dec p 88–95	schizophrenia, adrenal gland, steroid hormones 1949 July p 44-47 cortisone, ACTH, inflammation, degenerative diseases, hormone,
strain hardening, crystal structure, dislocations, forging, metal forming,	experience with and appraisal of two hormonal drugs
creep in metals 1975 Apr p 116–125	
circle-grid analysis, crystal structure, metal stamping, sheet-metal	neurosis, learning, psychotherapy, experimental neuroses in cats
production, metal structure 1976 Nov p 100–108	1950 Mar p 38-43 [443]
strange particles, high-energy physics, pions, muon, conservation of	epidemiology, anoxia, pregnancy, Down's syndrome, trisomy 21,
strangeness, sorting out the multiplicity of particles	etiology of Down's syndrome 1952 Feb p 60-66
1957 July p 72-88 [213] strangler trees, ecology, evolution, tropical rain forest 1954 Jan p 78-80	asthma, allergy, hypersensitivity 1952 Aug p 28-30 conditioned reflex, neurosis, operant conditioning, Pavlov, psychology,
Strategic Arms Limitation Talks, see SALT	thyroidectomy, emotional behavior, neurosis, conditioned reflex is
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1969 Aug p 17-29 [330]	battlestress 1956 Mar p 31-35
strategic bombing, atomic bomb, civilian morale, 'bomb not absolute	ulcer, psychosomatic illness, 'executive monkey' experiment 1958 Oct p 9>-100
weapon' says P M S Blackett 1949 Mar p 19	learning, behavior disorders, animal behavior, stimulation in infancy
strategic weapons, ABM systems, arms race, ICBM, MIRV, atomic weapons, SALT, atomic test ban, prospects for freeze on numbers	1960 May p 80-86 [436]
and qualitative improvement of weapons 1971 Jan p 15-25	ACTH adrenal hormones, elucocorticoids, pituitary hormones
arms control, atomic test ban, 'fireball blackout', EMP effect,	1971 Jan p 26-31 [532]
underground nuclear explosions 1972 Nov p 15-23 [342]	coping behavior, psychosomatic illness, rats
arms control, satellite, SALT, verification technology, 'national	1972 June p 104-113 [544] adrenal hormone 1961 Oct p 88
technical means of verification' 1973 Feb p 14-25 [346]	
arms race, bombers, SALT, AWACS, military expenditures, antiaircraft sytems 1973 Aug p 11-19	see also alarm reaction stress-corrosion failure, corrosion tunnel, crystal structure, dislocations,
antiaircraft sytems 1973 Aug p 11-19 ABM, ICBM, MIRV, atomic armaments, counterforce strategy, mutual	metalliding 1966 Feb p 12-61
assured destruction, arms race 1973 Nov p 18–27	stress fracture crystal structure materials technology, metallurgy, cracks
counterforce strategy, atomic weapons, cruise missiles, MIRV, arms	and fracture 1960 Feb p 94-104
race, missile accuracy, CEP, accuracy as multiplier of force	stretch reflex, central nervous system, reflex arc, neuromuscular control,
1975 July p 14-23	muscle contraction, nerve inhibition, interneuron, motor neuron, Renshaw cell, synapse 1966 May p 102-110
arms race, cruise missiles, SALT, tactical weapons, control systems,	Renshaw cell, synapse 1966 May p 102-110 muscle control, muscle spindles, psychophysics, sensory feedback,
navigation systems 1977 Feb p 20-29 [691] arms control, SALT, cruise missiles, bombers, Carter administration	servomechanisms, tendon organ 1972 May p 30-37 [1249]
'comprehensive proposal' for US-USSR force levels	strayon fields, tektites, meteoritic impact, origin of glassy stone
1977 Aug p 24-31 [696]	1961 Nov p 58-65 [802]
stratified charge, internal combustion engine, atmospheric engine, Otto-	stnatum, animal behavior, learning, cerebral cortex, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515]
Langer engine history of Otto engine 1967 Mar p 102-112	crows, pigeons, canaries, chickens 1968 June p 64–76 [515] stride, architecture, stairs, walking 1974 Oct p 82–90
stratigraphy, sandstone, sand dune, grantte, weathering, turbidity	etrang instruments, physics, harmony, wind instruments, piano, voice,
currents, sand origin and history from shape of grain 1960 Apr p 94-110	musical scale, acoustics, agreeable melodies and physical laws
Antarctic continental glacier, ice, volume of ice	1948 July D 32-41
1 accleared implications 1902 Sept D 152-130 [004]	musical instruments, 'following bow' experiment, Raman waves, 'wolf' note, physics of bowed string 1974 Jan p 87-95
t	attended to the state of the st
	Stromgren sphere. Gum Nebula, ionized-nydrogen cloud, whiky way
tachara upper atmosphere, ionosphere, fauto communication,	1971 DCC B 20~22
aurora, noctifucent clouds, meteorology	Strong engine, diffraction grating, spectroscopy, ruling engine, Rowland 1952 June p. 45-54
aviation, flight at high attractions, shock waves, exploding wire, generation	engine, the ultimate machine 1952 June p 45-54 strong-focusing synchrotron, particle accelerator, plans for 100 billions
streak photography, meteorities, since were 1962 May p 102–112 of shock waves by exploding wire 1962 May p 102–112	electron-volt machine 1953 May p 40–45
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physics, design and purposes of big accelerators 1958 Mar p 64-76 [251]	hypnosis 1957 Apr p 34-61 suicide, epidemiology, psychoanalysis 1954 Nov p 88-96
Brookhaven gets ok 1954 Mar p 45	adolescence, family, alienation, racial discrimination, divorce, poverty,
'strong' force, high-energy physics, baryons, mesons, 'eightfold way',	infant mortality, crime, drug addiction, changes in American family
conservation laws, Regge trajectory, resonance 'particles', 'bootstrap'	structure 1974 Aug p 53-61 [561] unemployment, suicides among the jobless 1963 July p 68
hypothesis 1964 Feb p 74-93 [296] proton spin, spin, high-energy physics, electron scattering, dependence	sulfa drugs, biochemistry, enzymes, virus, citric-acid cycle, metabolism,
of nuclear forces on spin 1966 July p 68-78	co-enzymes, antibiotics, science, biochemistry 1900-1950
hadrons, high-energy photons, photons as hadrons	1950 Sept p 62-68
1971 July p 94–104	metabolite antagonists, imitative drugs, folic acid, para-aminobenzoic
particle interaction, high-energy physics, gauge theory, field theory, weak' force, electromagnetic force 1974 July p 50~59	acid 1951 Apr p 60-63 sulfur, sulfuric acid, agricultural technology, Frasch process, sulfur
'weak' force, electromagnetic force 19/4 July p 30-59 gravity, electromagnetic force, 'weak' force, supergravity, symmetry,	demand-and-supply production 1970 May p 62–72
quest for unified theory of basic forces 1978 Feb p 126–143 [397]	sulfur bacteria, purple bacteria, phototropism, photosynthesis
strong interactions, mesons, nuclear binding force, particle physics,	1951 Nov p 68–72
fleeting associations of mesons and atomic nuclei 1956 Oct p 93-102 [207]	ATP, mineral cycles, biosphere, phosphorus cycle, sulfur cycle, carboxylation cycle, eutrophication, mineral cycles in the biosphere
mesons, pions, particle physics, nuclear binding force, quantum of the	1970 Sept p 148-158 [1195]
strong force 1957 Jan p 84-92 [226]	sulfur cycle, ATP, mineral cycles, biosphere, phosphorus cycle, sulfur
dual-resonance model, high energy physics, hadrons, light-string	bacteria, carboxylation cycle, eutrophication, mineral cycles in the
theory, quark 1975 Feb p 61-67	biosphere 1970 Sept p 148–158 [1195] sulfur dome, in Mississippi delta 1951 Oct p 34
strontium-rubidium ratios, isotope dating, lead isotopes, radioisotope dating, geological and paleontological time dated by radioactive	sulfuric acid, sulfur, agricultural technology, Frasch process, sulfur
decay 1949 Aug p 48-51	demand-and-supply production 1970 May p 62-72
strychnine, alkaloids, plant physiology, morphine, 'hemlock',	Sumer, law code, Lipit Ishtar, Hammurabi, cuneiform script, earliest law
physostigmine, caffeine, contine, quintine, cocaine, ricinine, LSD,	code 1865 B C 1948 June p 44-47 cryptology, hieroglyphs, a 3,500-year-old agricultural handbook
human toxins in plant physiology 1959 July p 113–121 [1087] total synthesis 1954 Dec p 56	1951 Nov p 54-55
stud gun, safety regulations 1963 Jan p 66	law code, hieroglyphs, Ur-Nammu 1953 Jan p 26-28
student body, ectomorphs preferred 1954 Nov p 52	Mohenjo-Daro, Harappan civilization, Indus valley, archeology
subduction, continental drift, plate tectonics, scaling, sea-floor spreading, Earth crust, Triassic period, Pangaea, computer modeling,	archeology, cuneiform script, law code, 3000 B C to 1500 B C, Ur,
supercontinents, breakup of Pangaea traced	Nippur 1957 Oct p 70–83
1970 Oct p 30-41 [892]	pictograph, Vinca culture, writing, Tartaria tablets, Romania, cultural
subduction zones, continental drift, earthquake zones, magnetization	diffusion, Sumerian writing 1968 May p 30-37
patterns, mountain formation, plate tectonics, sea-floor spreading, overview of the new geology 1972 May p 56-68 [900]	ancient trade, archeology, writing, Elamite culture, Mesopotamian culture, Persia, Iran, Tepe Yahya 1971 June p 102-111 [660]
earthquake zones, island arcs, lithospheric subduction, mountain	heroglyphic library 1952 Apr p 42
formation, plate tectonics, sea floor spreading, volcanic zones	Sun, solar system, cosmology, dust cloud hypothesis, gravity, light
1975 Nov p 88–98 [919] subjective probability, psychology, probability, decision making, Monte	pressure, gravitational collapse, thermonuclear reaction, genesis of solar system 1948 May p 35-45
Carlo fallacy, gambling, subjective and objective probability	carbon cycle, thermonuclear reaction, sunspots, solar spectrum, nearest
1957 Nov p 128-138 [427]	star 1948 Nov p 26-39
submarine canyons, ocean floor, continental shelf 1949 Apr p 40-43 ocean floor, turbidity currents, continental shelf, submarine avalanches	solar flares, ionospheric storms, aurora, sunspots, geomagnetic storms
and topography of ocean floor 1956 Aug. p 36-41	radio emissions, sunspots, magnetic storms, corpuscular streams
submarine-launched ballistic missile, see SLBM	1955 June p 40-44
submersibles, marine technology, drilling platforms, ocean, supertankers,	balloon astronomy, ultraviolet radiation 1959 May p 52-59
containenzation, technology and the ocean 1969 Sept p 198-217 [887]	ultraviolet radiation, telemetry, astronomy, rocket borne instrumentation 1959 June p 52-59
subsistence economy, economic development, industrialization, tropical	solar eclipse, ionosphere, solar flares, chromosphere, ultraviolet
rain forest, tropical rain forest, urbanization, resource management,	radiation, Earth-Sun chromosphere-ionosphere interaction
Brazil, uneven national development 1963 Sept p 208-220 subsistence herding, animal husbandry, Karimojong, cattle, Uganda	1962 Feb p 50-59
1969 Feb p 76–89	solar atmosphere, sunspots, rotation, magnetic field, eddies, solar atmospheric circulation 1968 Jan p 100-113
subterranean heat flow, ocean floor, East Pacific Rise, trench faults,	artificial satellite, ultraviolet radiation, ultraviolet astronomy,
earthquakes, convection currents 1961 Dec p 52-61 suburbanization, U S population, population redistribution, U S census,	spectrohehograph 1969 June p. 92-102
numan migration. U.S. census of 1970 1971 July p. 17–25	chromosphere, corona, eclipse phenomena, photosphere, solar corona
suburbs, US census, urbanization, age sex distribution, baby boom.	1973 Oct p 68-79 planets, solar system, space exploration, introduction to single-topic
family size, central city, US census at 1960 1961 July p 39-45 housing, urban planning, central city, cities, metropolitan area,	issue on the solar system 1975 Sept. p. 22-31
conurbation, evolution of the metropolis 1965 Sept. p. 64-74	neutnno, solar corona, solar energy, solar magnetism, sunspots
local government, cities, New York, metropolitan region, central city	a variable (slightly) star 1975 Sept p 42-50 1955 Oct p 46
Northeast Corndor, regional planning 1965 Sept p 134–148	estimated life span 1957 Apr p 70
succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in	inst bandon photographs of Sun 1957 Nov p 68
not acid environment 1959 fully n 91_00	Sun cycle, magnetic field, solar magnetism, photosphere chromosphere
suckling, animal behavior, developmental psychology, homing behavior, littens, learning	Solar almosphere, 11-year solar cycle explained 1066 Nov 64 62
sugar consumption, implicated in diseases 1972 Nov 55	Sun dogs, natos, ice crystals, optics, atmospheric halos
sugar metabolism, insulin, amino-acid sequence, cell membrane, human	Sun structure, sunspots, solar rotation, solar spectrum
sugarcane, discase resistant plants plant beguing account plant	1075 5 107 114
disease, rungar infection, plant pathogens, mechanism of disease	suttigut, photosynthesis, chlorophyll carotene retinane racio
resistance in plants 1975 Jan p 80-88 [1313]	photobiology, phototropism, bioluminescence, life and light
•	1959 Oct. p 92-108

cave dwellers, Peru, human evolution, Ayacucho site	After time of observable of the
1971 Apr p 26	streamer chamber, linear accelerator, track detectors, pulse generator,
chinate, Europe, numing, Palcolithic settlements 1076 P. L on	1907 UCL D 38-16
climate, cultural evolution, hunter-gatherer societies. Nile production,	
t according settlements 1976 Aug = 20	and the state of t
rateonthic culture, Kalanibo Falls site 1958 July 2	36 ductility 1968 Nov. p. 36.45
Australopithecus, toolmaker 1974 Aug p	40 The state of th
Neolithic quarries in Britain	response, heart disease, hypersensitivity 1965 Dec p 66-74
Stonehenge, radiocarbon dating, built 4,000 years ago, 2,000 years befor	a possible vaccine 1966 Dec. p. 65
Druids 1952 Ivan 7,000 years belof	
Drings 1953 June p 25-: Neolithic archeology, woodhenges, henge monuments, Britain	intectious disease, the antibiotic revolution 1952 Apr p 49-57
1070 x	bacteria, gene transformation, drug resistance, pneumococcus,
Sarsen carvings 1970 Nov. p. 30-3	10 ICCOMBINANT DNA brochemisters of Arone Malered and McCorte
storage mode, liquid crystals, display devices, dynamic scattering,	¹⁸ experiment 1956 Nov p 48–53 [18]
television receiver 1970 Apr p. 100 10	isoniazid, isotopes, tuberculosis, para-aminosalicylic acid,
	pharmacology, tracing action of TB drugs 1956 Nov p 135-144
storage rings, high-energy physics, synchrotron, particle accelerator,	antibiotics, protein synthesis, genetic code, ribosome, DNA, RNA,
colliding beam accelerator, spark chamber	Illutation 'must admas' induced by antibiotic alternations of
1966 Nov p 107–116 [323	I ribosomes 1966 Apr p 102-109
antimatter, electron-positron annihilation, I particle, psi particle,	on market 1952 Sept p 74
charm, color, quark, high-energy physics, virtual particles	made safer 1955 Dec n 50
1975 June p 50-6	2 genetic code 1964 July p 44
straight line, mathematics, Euclidean geometry, geometry, curved line,	stress, hypertension, atherosclerosis, angiotensia, etiology and care of
reach and limits of axiomatic approach 1956 Mar p 104-114	hypertension 1948 Aug. p 44-47
strain gauge, obstetrical labor, uterine muscle, measurement of forces in	psychosomatic illness, alarm reaction, kidney disorder, cardiovascular
uterine muscle at delivery 1950 Mar n 52-54	disease, adrenal gland 1949 Mar p 20-23 [4]
earthquake prediction, laser, interferometry, Earth crust	schizophrenia, adrenal gland, steroid hormones 1949 July p 44-47
1969 Dec n 88-95	cortisone, ACTH, inflammation, degenerative diseases, hormone,
strain hardening, crystal structure, dislocations, forging, metal forming,	expenence with and appraisal of two hormonal drugs
creep in metals 1975 Apr p 116-125	1950 Mar p 30-37 [14]
circle-grid analysis, crystal structure, metal stamping, sheet-metal	neurosis, learning, psychotherapy, experimental neuroses in cats
production, metal structure 1976 Nov p 100-108	1950 Mar p 38-43 [443]
strange particles, high-energy physics, pions, muon, conservation of	epidemiology, anoxia, pregnancy, Down's syndrome, trisomy 21,
strangeness, sorting out the multiplicity of particles	etiology of Down's syndrome 1952 Feb p 60-66
1957 July p 72-88 (213)	
strangler trees, ecology, evolution, tropical rain forest 1954 Jan p 78-80	conditioned reflex, neurosis, operant conditioning, Pavlov, psychology,
Strategic Arms Limitation Talks, see SALT	thyroidectomy, emotional behavior, neurosis, conditioned reflex is
strategic balance, ABM, arms race, ICBM, MIRV, SLBM, mutual	shown to be a neurosis 1954 Jan p 48-57 [418]
assured destruction, counterforce strategy, national security	ACTH, war, combat fatigue, psychiatry, Korean war studies of
1969 Aug p 17–29 [330]	battlestress 1956 Mar p 31-35
strategic bombing, atomic bomb, civilian morale, 'bomb not absolute	ulcer, psychosomatic illness, 'executive monkey' experiment
weapon' says P M S Blackett 1949 Mar p 19	1958 Oct p 95-100
strategic weapons, ABM systems, arms race, ICBM, MIRV, atomic	learning, behavior disorders, animal behavior, stimulation in infancy
weapons, SALT, atomic test ban, prospects for freeze on numbers	1960 May p 80-86 [436]
and qualitative improvement of weapons 1971 Jan p 15-25	ACTH adrenal hormones alucocorticoids intuitary hormones
arms control, atomic test ban, 'fireball blackout', EMP effect,	1971 Jan p 26-31 [532]
underground nuclear explosions 1972 Nov p 15-23 [342]	coming behavior insuchosomatic illness 13ts
arms control, satellite, SALT, venification technology, 'national	1972 June n 104-113 [544]
technical means of verification' 1973 Feb p 14-25 [346]	adrenal hormone 1961 Oct p 88
arms race, bombers, SALT, AWACS, military expenditures,	see also plarm reaction
antiaircraft sytems 1973 Aug p 11–19	stress-corresion failure, corresion tunnel, crystal structure, dislocations,
ABM, ICBM, MIRV, atomic armaments, counterforce strategy, mutual	metalliding 1900 Feb p 12-01
assured destruction, arms race 1973 Nov p 18-27	stress fracture, crystal structure, materials technology, metallurgy, cracks
counterforce strategy, atomic weapons, cruise missiles, MIRV, arms	and fracture 1960 Feb p 94-104
race, mussile accuracy, CEP, accuracy as multiplier of force	stretch reflex, central nervous system, reflex arc, neuromuscular control,
1975 July p 14-23	muscle contraction, nerve inhibition, interneuron, motor neuron,
arms race, cruise missiles, SALT, tactical weapons, control systems,	Renshaw cell, synapse 1966 May p 102-110
navigation systems 1977 Feb p 20-29 [691]	muscle control, muscle spindles, psychophysics, sensory feedback
arms control, SALT, cruise missiles, bombers, Carter administration	servomechanisms, tendon organ 1972 May p 30-37 [1247]
'comprehensive proposal' for U.SU.S.R. force levels	strewn fields, tektites, meteoritic impact, origin of glassy stone
1977 Aug p 24-31 [696]	1961 Nov p 58-65 [802]
stratified charge, internal combustion engine, atmospheric engine, Otto	striatum, animal behavior, learning, cerebral cortex, bird nervous system, crows pigeons, canaries, chickens 1968 June p 64-76 [515]
Langen engine history of Otto engine 1967 Mar p 102-112	
stratiorandy, sandstone, sand dune, granite, weathering, turbidity	stride, architecture, stairs, walking 1974 Oct p 82-90
overents sand organ and history from shape of grain	string instruments, physics, harmony, wind instruments, piano, voice, musical scale, acoustics, agreeable melodies and physical laws
1960 Apr p 94–110	musical scale, acoustics, agreeable meloures and physical law 1948 July p 32-41
Antarctica, glaciation, Antarctic continental glacier, ice, volume of ice	musical instruments, 'following bow' experiment, Raman waves, 'wolf'
in all more applications (902 Sept p 132-140 [601]	note, physics of bowed string 1974 Jan p 87-95
tunar geology satellite, cratering, lunar time scale, Kanger	note, physics of bonds and reclamation 1975 Dec p 23–29
1 / 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	Strommen sphere, Gum Nebula, ionized-nydrogen cloud, which way
atmitosphere, upper atmosphere, ionosphere, radio communication,	19/1 Dec 1 20-27
aurora, noctilucent clouds, meteorology	Strong engine, diffraction grating, spectroscopy, ruling engine, Rowland
the strain who tography, meteorites, snock waves, expround waves	strong-focusing synchrotron, particle accelerator, plans for 100 billion
of shock waves by exploding wire 1962 May p 102-112	electron-volt machine 1953 May p 40-45
atream acology, trout, mortality, population control, mortality	
ones and let the big ones go'	

cosmic radiation, pulsar, radio emissions, superdense matter	surface-to-volume ratio, hummingbird, metabolism, body temperature, thermoregulation, hibernation 1953 Jan p 69-72
1971 July p 74-85 galaxy structure, interstellar matter, Milky Way, stellar formation,	surfactant, synthetic detergents, amonic detergent, cationic detergent,
galaxy structure, interstenar matter, which way, stema formation, galactic dust clouds, nebulae, Gum Nebula, Bok globules	nature and action of synthetic detergents 1951 Oct p 26-30
1972 Aug. p 48-61	flotation, mineral separation, bubbles, collector ions, ore beneficiation
spectroscopy, age of elements, age of universe, element formation, mass	1956 Dec p 99-110
spectroscopy, nucleochronology, radioactive nuclei, stellar evolution	alveoli, lung collapse, premature infants, lecithin, breathing, surface tension, hyaline membrane disease, soaplike agents regulate surface
dense stars, binary stars, X-ray binary stars 1975 Mar p 24-35	tension in lungs 1962 Dec p 120–130
dense stars, binary stars, X-ray binary stars 1975 Mar p 24-35 black hole, interstellar gas, magnetohydrodynamics, neutron stars,	fetal lungs, infant, hyaline membrane disease, lung 1973 Apr p 74-85
pulsar, stellar evolution, X-ray sources 1975 Dec p 38-46	carbon dioxide, neuston, marine life, microlayer oceanography, ocean
Chinese starcharts, Tycho's supernova, Kepler's supernova, 'guest	surface, rainwater composition 1974 May p 62–77 [913]
stars', the seven observed supernovae 1976 June p 100–107	surgery, disease, morbidity, archeology, record of illness among the ancients 1949 Jan p 52-55
stellar evolution, spectroscopy, supernovae observed in other galaxies 1976 Dec p 89-101	sutures, surgical needles, surgical stitching 1950 Nov p 44-47
interstellar matter, shock waves, gravitational collapse, stellar	scalpels, tools 1951 Nov p 62-66
formation, stellar evolution, birth of massive stars	dialysis, heart-lung machine, kidney machine 1954 Aug. p 24-27
1978 Apr p 110–118 [3005]	military medicine, medicine, science history, Pare, life and work of Ambroise Pare 1956 Jan p 90–96
helium to beryllium 1952 Mar p 40 in Lupus proposed 1965 May p 57	Ambroise Pare 1956 Jan p 90-96 anesthesia, pain, cocaine, procaine, medical research,
observed in Sumer 1965 May p 57	neuropharmacology, pharmacology, psychiatry, research in pain
superplasticity, materials technology, metalliding, microduplex structure,	suppression 1957 Jan p 70–82
thermomechanical processing, grain structure, metals that can be	hibernation, hypothermia, shock, metabolism, body temperature,
formed like plastics 1969 Mar p 28-35	artificial lowering of body temperature for surgery and shock
supersonic flight, heat barrier, aviation, lift barrier 1953 Dec p 80-84	1958 Mar p 104-114 gunshot wounds, medical history, assasination of U S President
aerodynamics, shock waves, wind tunnel, molecular beam, ultra-high alutude aerodynamics 1958 Jan p 36-42	McKinley 1963 Mar p 118–120
sonic boom, sbock waves, noise pollution, supersonic aircraft design,	medical care, surgical specialties, mortality rates, malpractice claims,
geometry of sbock waves 1962 Jan p 36-43	post-operative negligence 1973 Sept p 90-98
aeronautics, commercial aircraft, aircraft design, sonic boom, aviation	cerebral vascular accident, atherosclerosis, nucrovascular surgery,
industry, technology and economics of supersonic transport 1964 June p 25-35	cerebral hemorrhage, repair and prevention of stroke by microvascular bypass operation 1978 Apr p 58-67 [1385]
at Mach 2 1952 Sept p 69	autotransplantation of organs 1962 June p 80
strontium 90 fallout, commercial jet interiors 1959 Aug. p 62	Eastman 910 surgical glue 1963 Jan p 64
US competition with Concorde? 1963 Aug. p 48	in excess 1977 Jan p 43
supertankers, marine technology, drilling platforms, ocean, submersibles,	surgical isolator, dental research, germ-free environment, immune
containerization, technology and the ocean 1969 Sept p 198-217 [887]	response 1964 July p 78-88 surgical needles, surgery sutures, surgical stitching 1950 Nov p 44-47
surf, tsunamis, seiches, ocean waves, breakers, generation and	surgical prosthesis, knee joint, human anatomy, surgical replacement of
propagation of ocean waves 1959 Aug. p 74-84 [828]	the knee joint 1978 Jan. p 44-51 [1378]
beaches, sand dune, sand bar, berm, ocean, rip channels, conservation	surgical specialties, medical care, surgery, mortality rates, malpractice
of beaches 1960 Aug p 80–94 [845] surf clam, visual perception, visual systems, scallop, inhibitory impulse,	claims, post-operative negligence 1973 Sept p 90-98 surgical stapler, cardiovascular surgery, vascular surgery, stapling technic
shadow-sensitive receptors, invertebrate 'eyes' as models for study of	for joining vessels 1962 Oct p 48-56
organization of sensation in perception 1963 July p 122–130	surgical stitching, surgery, sutures, surgical needles 1950 Nov p 44-47
surface alloy, alloys, metalliding, materials technology, diffusion, molten	surrogate mother, behavioral psychology, emotional deprivation,
fluoride, electrolysis 1969 Aug. p 38-46 surface area, dermatoglyphics, skin, hair, skin glands, thermoregulation,	maternal deprivation, rhesus monkeys, infant monkey 'love' 1959 June p 68~74 [429]
structure and function of human skin 1965 Feb p 56-66 [1003]	surveying, laser, optical communication, bolography, welding, light, laser
surface chemistry, materials technology, solid state physics, crystal	technology 1968 Sept. p. 140-156
defects, epitaxial growth, precipitation in solids, 'doping', chemical	suspended animation, animal behavior, cryptobiotic animals, metabolism,
properties of materials 1967 Sept p 210-220 surface colors, color perception, chromatic saturation, hue	anaerobic metabolism, Nematoda, Rotifera, Tardigrada
1975 Aug p 62-75 [565]	1971 Dec p 30–36 suspension bridges, bridges, aerodynamics, harmonic oscillation
surface defects, crystal growth, metal 'whiskers', lattice defects, growth of	1954 Nov p 60-71
metal whiskers 1960 July p 64-72	Sutton Hoo, ship burial, Anglo-Saxon King, a treasure board
surface deformation, fixed point theorems, mathematics, topology, contraction 1966 Jan p 105-110	Beowulf legend 1951 Apr p 24-30
surface geometry, area minimizing principle, measure theory,	sutures, surgery, surgical needles, surgical statching 1950 Nov p. 41_17
mathematical model mathematical surfaces, soap bubbles	SV40 virus, adenoviruses, cancer virus, DNA virus, DNA recombination
1976 July p 82-93 surface mining, excavating machines, tunneling, rock borers, earth-	gene transformation, tumor-virus antigen, virus etiology of cancer
moving, mining 1967 Nov p. 74–85	1966 Mar p 34-41 gene culture, polyoma virus, cell transformation, viral DNA, viral
surface tension, adhesive, molecular attraction, elastic energy, epoxy	Carcinogenesis 1967 Apr p. 28_37 (1060)
resins molecular repulsion, micromechanics of adhesion	cancer, gene transformation, chromosome mapping tissue culture
1962 Apr p 114-126 alveoli lung collapse premature infants, lecithin, breathing, surfactant,	somatic cells, hybrid cells, genetics of buman cancer
nvaline membrane disease, soaplike agents regulate surface tension	Svea, commerce, Vikings, nomads, Scandinavia, Vinland, Siegfried
in lungs 1962 Dec. p. 120–130	legend, seafaring, appraisal of 400-year Viking ascendance
boundary phase hypothesis superdense water, water II, polymenzation polywater, thermal conductivity, evidence for water	1067 \(\text{10} \) = 66 70
11 argued 1970 Nov p. 52–71	smamp, climate, marshiand, ecology, eutrophication, wetlands, natural
cavitation, droplet-levitation technique, liquids, negative pressure	Swanscombe cranium, Homo sapiens, Neanderthal man Charmen I
vater sinder, backswimmer, whirligig beetle, ecology, springtail,	Galley Hill skull human evolution, antiquity of Homo sapiens
aquatic insects of the water surface	1010 Tule 16 10
1978 Apr p 134-142 [1387]	Sweden, assembly lines, mass production, work satisfaction, worker teams, management science, 'scientific management'
	1975 Mar p 17-23
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architecture, lighting, solar radiation, building construction, glass	
1968 Sept. p. 100-20:	electromagnetism, mobium alloys, magnetism, proton beam focusing generation of intense magnetic fields 1967 Mar p 114-123
an ponution, rickets, vitamin D, ultraviolet radiation, osteogenesis.	Chattan effects superconductions 1907 Mar p 114-123
artificial light, biological clock, suntaining, vitamin D, body's response	I macroscopie quantum effect photographed 1971 Mar p. 74.84
to light 1975 July p 68-77 [1325]	BCS theory, crystal structure, electrical properties of metals.
proton-proton rusion 1953 I m = 3.	the confedences interculated crystals, tayered
summe suns, multiple-star systems, planetary systems, frequency of 'solar	electric power transmission lines 1072 Ann a 91 01
systems', survey of 123 nearby stars 1977 Apr p 96-104 sunrise, sunset, light scattering, green flash, green flash explained	electromagnetic flight, transportation, linear induction motor linear
1960 Lm p 112-122	synchronous motor, 'magneplane' vehicle, magnetic levitation
sunset, sunrise, light scattering, green flash, green flash explained	electromagnetism, mobium 1973 Oct p 17-25
1960 Lin p. 112-122	mobium, molybdenum 1962 June p 82
sunspots, Sun, carbon cycle, thermonuclear reaction, solar spectrum, nearest star 1948 Nov p 26-39	plastics, plastic superconductor synthesis proposed 1964 Aug p 39
Sun, solar flares, ionospheric storins, aurora, geomagnetic storiis	alloys, alloy by ultrarapid cooling 1964 Sept. p 88 d c transformer 1966 Nov p 71
1951 Dec. p. 17-21	lingher transition temperatures 1967 July p 42
aurora, magnetic storms, cone of avoidance, solar wind, solar rotation, corpuscular streams, cycles in 'solar wind' 1955 Feb p 40-45	alloys, intense magnetic fields 1970 May p 56
corpuscular streams, cycles in 'solar wind' 1955 Feb p 40-45 Sun, radio emissions, magnetic storms, corpuscular streams	see also organic superconductor supercontinents, continental drift, glaciation, Gondwanaland, Laurasia
1955 June p. 40-44	paleomagnetism, Glossoptens, sea-floor spreading plate tectomes
magnetic field, solar magnetism, Zeeman effect, mapping changes in	continental drift confirmed 1968 Apr p 22-64 [874]
solar magnetic field 1960 Feb p 52-62 Sun, solar atmosphere, rotation, magnetic field, eddies, solar	continental drift, plate tectonics, scaling, subduction sea-floor
atmospheric circulation 1968 Jan p. 100–113	spreading, Earth crust, Triassic period, Pangaea, computer modeling breakup of Pangaea traced 1970 Oct p 30-41 [892]
Sun structure, solar rotation, solar spectrum 1975 Apr. p. 106-114	supercooling, ice, snow, water, frost, condensation nuclei, ice worms how
neutrino, solar corona, solar energy, solar magnetism, Sun	water freezes 1959 Feb p 114-122
1975 Scpt p 42-50 carbon 14 abundance, climate, ice ages, Maunder minimum, solar	helium, superfluidity, neutron scattering, fountain effect, 'quasi particles' model of liquid helium 1960 Nov p 138-150 [272]
physics, dendrochronology 1977 May n 80-92 (925)	fluid dynamics, liquid, nucleation, cryogenics, crystal growth behavior
suntanning, cancer, ultraviolet radiation, melanocytes, epidermis, skin,	of supercooled fluids 1965 Jan p 38-46
artificial light, biological clock, sunlight, vitamin D, body's response to	amorphous solid, materials technology, glass, crystal structure geometry of glass, two-phase glasses 1967 Sept p 126-136
light 1975 July p 68–77 [1325]	cryogenics, helium 3/helium 4 dilution, nuclear cooling, approaching
superconductive amplifier, superconductivity, low-temperature physics,	absolute zero, Pomeranchuk method 1969 Dec p 26-33
critical field strength, superconductive motor, fluxtrap, superconductive bearing, applications of superconductivity	supercritical boiler, 1,150 degrees F, 4,500 p s l 1953 July p 41 superdense matter, cosmic radiation, pulsar, radio emissions, supermotes
1960 Mar p 74-82	1971 July p 74-05
superconductive bearing, superconductivity, low-temperature physics,	superdense water, boundary-phase hypothesis, water 11 polymerization
critical field strength, superconductive motor, fluxtrap, superconductive amplifier, applications of superconductivity	polywater, thermal conductivity, surface tension, evidence for water II argued 1970 Nov p 52-71
1960 Mar p 74-82	superfluidity low-temperature physics, cryogenic technology, helium
superconductive glass, at 42 degrees K 1971 Feb p 47	superconductivity 1949 June p 30-39 [206] helium 1, helium 2, seond sound, quantum mechanics low-temperature
superconductive motor, superconductivity, low-temperature physics, critical field strength, fluxtrap, superconductive bearing,	physics, hand helium properties 1958 June p 30-33 [224]
superconductive amplifier, applications of superconductivity	helium, supercooling, neutron scattering, fountain effect, 'quasi
1960 Mar p 74-82	particles' model of liquid helium 1960 Nov p 138-120 [272] helium 3, liquid phase, gas phase solid state physics quantum effects
superconductivity, low-temperature physics, cryogenic technology, hehum, superfluidity 1949 June p 30-39 [206]	quantum fluids, phase transitions 1976 Dec p 30-11
electrical resistance, magnetism, cryogenics, upper limit of temperature	superfluidity helium, quantum mechanics, vortex ring macroscopic
of superconductivity 1957 Nov p 92-103 [227] low-temperature physics, critical field strength, superconductive motor,	augergales v. Aldl v. Way, local clusters, galactic clusters
fluxtrap, superconductive bearing, superconductive amplifier,	1954 July p 30-33
applications of superconductivity 1960 Mar p 74-82	supergravity, gravity, electromagnetic force 'weak' force 'strong' force symmetry, quest for unified theory of basic forces
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electromagnetism, shaped field, magnetic bottle, materials technology,	superheated fluid, bubble chamber cloud chamber liquid hydrogen 1955 Feb p 46-50 [216]
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semiconductor, superconductivity in semiconductors	radio star Crab Nebula, Cassiopeia galactic collision with 200 radio
1964 June p 30-39	stars counted, some speculation on their nature 1953 Jan p 17-21 cosmic radiation, massive nuclei high-energy physics. Milky Way
electric current, Josephson effects, microwave emission, tunnel junction, quantum mechanics, confirmation and applications of	magnetic field, particle acceleration fundamental research where do
T amboon affacts 1900 May D 30-37	cosmic rays come from? 1953 Sept p 64-70 [239] synchrotron radiation, radio star Crab Nebula natural synchrotron
aventum effects magnetism, magnetic vortexes, superconductors,	1957 Mar p 32~00
macroscopic quantum error pro-	cosmic radianon, galactic magnetism, cosmic ray showers evidence for
metals increases with pressure	and a galaxies gravitational collapse, nonthermal emission
publication of the 'BCS theory' 1973 May p. 43	synchrotron radiation, intensity of galactic radio emission
in organic solids	1962 Mar p 41–49 [278] polarization, astronomy, Crab Nebula, photometric observations of
proposal for room-temperature superconductor 1965 Feb p 21–27	1902 Apr p 34-03
magnetic field, magnetism, Bittel solehold, 0 5 1965 Apr p 66-78	cosmic radiation cosmic ray showers, galactic halo synchrotron radiation particle acceleration, abundance energies sources of
Laboratory Meissner effect, quantum mechanics, magnetic field, magnetic Meissner effect, quantum mechanics, magnetic field, magnetic	cosmic rays
Meissner effect, quantum mechanics, magnetic in impermeability, quantized vortexes, quantum effects in 1965 Oct p 57-67	

sensitivity, invariant/variable dyad	1972 Sept. p 72-80	
nthane process, coal gasification, energy resourc	es, gasification	
processes, Lurgi process, Hygas process, CO2	acceptor process, coal	T
technology	1974 Mar p 19–25	1
nthetic attractants, insecticide, insect attractant,	chemotaxis, odor-	T-cells, antibody molecule, antigens, B-cells, immune system, lymphatic
baited lure, pheromones, third-generation ins		system, lymphocytes 1973 July p 52–60 [1276]
	964 Aug p 20–27 [189]	antibodies, bursa, cell differentiation, humoral immunity, B-cells,
nthetic detergents, anionic detergent, cationic de	1951 Oct p 26-30	immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306]
nature and action of synthetic detergents inthetic diamonds, high pressure, carbon phases,		antibodies, cell membrane, histocomptability, antigens, immune
of matter	1955 Nov p 42–46	response, immunoglobin, lymphocytes, B-cells
high pressure technology, from laboratory to in		1976 May p 30-39 [1338]
ingli pressure technology, from incontroly to in-	1965 May p 38-46	T4 virus, bacteriophage, virus structure, DNA, mutation, morphogenesis,
crystal growth, diamond-crystal structure, grap		test-tube reconstruction of viral components
synthesis at low pressure	1975 Nov p 102-109	1967 July p 60-74 [1079]
G E. in business	1955 Apr p 47	table of elements, periodic table, 'synthetic' elements, transuranium
pressure reduced by catalysis	1960 Jan p 74	elements, stable isotopes, isotopes, first of a series of articles,
synthetic' elements, cosmology, red shift, galactic		recounting the completion of the table of elements (43 [technetium],
abundance, universe expansion	1948 July p 20–25	61[promethium], 85[astatine] and 87[francium]) and the first five transuranic elements (93[neptunium], 94[plutonium], 95[americium],
periodic table, transuranium elements, table of		96[curium] and 97[berkelium]) 1950 Apr p 38–47 [242]
isotopes, isotopes, first of a series of articles,		rare earths, fission products, abundance in fission products draws
completion of the table of elements (43 [tech 61[promethium], 85[astatine] and 87[francium	ml) and the first five	attention to rare earths 1951 Nov p 26–30
transuranic elements (93[neptunium], 94[plu		californium, einsteinium, fermium, 'syntbetic' elements, transuranium
	1950 Apr p 38–47 [242]	elements, mendelevium, radioactive decay, periodic table at 101
thermonuclear reaction, element abundance, si		1956 Dec p 66-80 [243]
isotopes, particle accelerator, experimental a		element 98 californium 1950 May p 27
, , ,	1956 Sept p 82-91	table of isotopes, atomic nucleus, shell model, 'magic numbers', spin-orbit
californium, table of elements, einsteinium, fer	mium, transuranium	coupling 1951 Mar p 22–26
elements, mendelevium, radioactive decay, p		tachistoscope, digit recall, short-term memory, long-term memory,
	1956 Dec p 66-80 [243]	memory 1966 July p 90–95 [499]
uranium fission, nuclear fission, fission produc		tachyons, Cerenkov radiation, high-energy physics, speed of light, special
transuranium elements, science history, disc	1958 Feb p 76–84	relativity, hypothetical particles faster than light 1970 Feb p 68–77 taconite, iron ore, mining, ore beneficiation, low-grade ores, hematite
element 103, lawrencium, transuranium eleme.	-	1968 Jan p 28–35
reactor, beavy-ion linear accelerator, period	· · · · · · · · · · · · · · · · · · ·	tactical nuclear weapons, arms race, neutron bomb, atomic weapons, U S
	1963 Apr p 68-78	decision to develop and deploy enhanced radiation weapons
alpha decay, transuranium elements, isotopes,	nuclear stability, beta	1978 May p 44-51 [3007]
decay, radioactive decay, periodic table, the		deployment by U S forces in Europe 1973 Oct p 47
beyond 103	1969 Apr p 56-67	not counted in SALT 1975 May p 42
isotopes, elements, radioactive decay, atomic	nucleus, exotic isotopes of	tactical weapons, arms race, cruise missiles, SALT, strategic weapons,
light elements transuranium elements, element 97	1978 June p 60-72 [3010] 1950 Mar p 28	control systems, navigation systems 1977 Feb p 20-29 [691] tadpole, frog, thyroid hormone, amphibian metamorphosis, chemistry of
99 and 100	1954 Apr p 48	amphibian metamorphosis 1963 Nov p 110–118 [170]
17 atoms of 101	1955 July p 50	talking computers, speech synthesis, vocal tract, spectrograph, Voder
transuranium elements, nobelium	1958 July p 49	1972 Feb p 48–58
transuranium elements, element 103	1961 June p 84	communication, computer language, man-machine interface
synthetic fiber, rayon, nylon, synthetic macromo		1975 Mar p 36–42
man-made textile fibers	1951 July p 37–45	Tallensi, Ashanti, social anthropology, kinship, extended family, social
glass fiber, materials technology, composite n properties of 'two-phase' materials		structure, social psychology, primitive Tallensian and Ashantian
terylene	1951 Apr p 34	kinship 1959 June p 146–158 tanker wastes, marine ecology, marine pollution, tar, pelagic tar
synthetic fuels, energy conservation, nuclear por		1975 June p 90–97
energy, energy policy of U S	1974 Jan p 20-29 [684]	tankers, natural gas, liquid natural gas, pipelines, storage, distribution of
synthetic hevea, rubber, man made natural rubb	per 1955 Dec. p 50	LNG 1967 Oct p 30–37
synthetic macromolecules, synthetic fiber, rayor		energy economics, energy storage, economic geography, pinelines
man made textile fibers	1951 July p 37-45	power transmission, power, economic geography of energy
synthetic polymers, amorphous polymers, polymers, amorphous polymers, amorphous polymers, polymers, amorphous polymers, polymers, amorphous polymers, amorphous polymers, amorphous polymers, amorphous polymers, polymers, amorphous polymers, amorph	ner microstructure,	production, distribution and consumption
polymers	1975 Dec p 96–106	1971 Sept p 164-175 [669] energy resources, fuel imports, liquid natural gas, technology
synthetic RNA, interferon induction, poly l C,	virus disease	assessment, risk estimation, LNG 1977 Apr p 22–29
	1971 July p 26-31 [1226]	tape recorders, music, sound reproduction, speech grammaphones
syphilis, antibodies	1949 June p 27	auditory perception, engineering of sound systems
synnx, bird song, communication, songbirds, m		1061 Aug n 72 84
production 19 systems analysis, operations research, decision	69 Nov p 126–139 [1162]	tapetum lucidum, bioluminescence, fish, fish-scale crystals, optics under
operations research, decision	1951 Mar p 15–17	water, camouflage 1971 Jan p 64-72 [1209]
computer programming, computer language,	computer technology.	tar, marine ecology, marine pollution, tanker wastes, pelagic tar
how to write a computer program	1966 Sept p 112-124	tar sands, fossil fuel, petroleum reserves, coal reserves, energy
cities, urban transport, computer modeling, p	personal-transit systems,	consumption, liquid-fuel consumption, shale, coal liquefaction, the
mass transit	1969 July n 19 – 27	1040 Dec = 22 20
s) stems design, accounting, computer technolo making, bookkeeping, uses of computers i	gy, computer decision	chergy economics, oil shales, petroleum, shale retorts, potential liquid
and a sourcebuilt, uses of computers i	1966 Sept p 192–202	1046 E-1 - 31 30
	2700 Sept p 172-204	digger wasp, symbiosis, predator-prey relationship
		Tartana tablets, pictograph, Vinca culture writing Romania San

Tartaria tablets, pictograph, Vinca culture, writing, Romania, Sumer, cultural diffusion, Sumerian writing 1968 May p 30–37

Leibnitz, biography

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swim bladder, marine biology, buoyancy, chambered nautilus, cuttlebone
                                                                                       Dodgson, barber paradox, mathematics, paradox
                                                         1960 July p 118-128
                                                                                                                                           1972 July p 38-46
     counter-current exchange, rete mirabile, heat conservation, physiology,
                                                                                    symmetry, handedness, natural and conventional
                                                                                                                                           1948 Oct p 46-49
                                                                                       time reversal, reversible reactions, probability against it in macroscopic
       kidney, gill, physics of a physiological invention
                                                               1957 Apr. p 96
  swimming, fish, laminar flow, turbulence, purpoises, how fishes and sea-
                                                                                                                                        1956 Aug. p 107-114
                                                                                      elementary particles, parity, 'weak' force, quantum, particle interaction,
       going mammals swim
                                                   1957 Aug p 48-54 [1113]
                                                                                         right and left-handed particles breakdown of parity
     metabolism, salmon, fish inigration, laboratory observation of energy
       production by salmon
                                                                                                                                     1957 Apr p 45-53 [231]
                                                    1965 Aug p 80-85 [1019]
                                                                                       antimatter, elementary particles, 'weak' force, parity, particle
  swinging, parametric amplification
                                                               1977 Apr p 60
                                                                                         interaction, recognition of 'fourth force'
  switchboards, complexity theory, networks, mathematics from networks
                                                                                                                                    1959 Mar p 72-84 [247]
                                                                                      parity, time reversal, CPT mirror, mirror images
       and switching systems
                                                 1978 June p 114-124 [3013]
  switching, fluid dynamics, amphfiers, Counda effect, logic gates
                                                                                                                                    1965 Dec p 28-36 [301]
                                                                                      time reversal, parity, charge conservation, lambda decay, CPT
                                                          1964 Dcc. p 80-88
                                                                                        conscrvation, proton spin, experiments in time reversal
    amorphous semiconductors, glass, memory, threshold switch, memory
                                                                                                                                         1969 Oct p 88-101
                                                          1969 Nov p. 30-41
                                                                                      gravity, electromagnetic force, 'weak' force, 'strong' force, supergravity,
  switching circuits, symbolic logic, Boolean algebra, paradox
                                                                                        quest for unified theory of basic forces 1978 Feb p 126-143 [397]
                                                          1950 Dec. p 22-24
                                                                                   synapse, acetylcholine, hormone, nerve impulse, serotonin, emotional
  switching elements, binary arithmetic, computer technology, integrated
                                                                                        illness, neurotransmitters, central nervous system, physiological
       circuits, logic circuits, computer memory, microelectronics, hardware
                                                                                        psychology, chemical mediation of nerve impulses
       of computer
                                                          1966 Sept p 74-85
                                                                                                                                         1957 Feb p 86-94
  switching phenomena, amorphous semiconductors, nonperiodic systems,
                                                                                     electric fishes, sodium ion potential, electroplaques, neurophysiology,
       Ovshinsky devices, quantum mechanics, semiconductor technology
                                                                                        acetylcholine, animal behavior, nerve impulse, bioluminescence
                                                    1977 May p 36-48 [362]
                                                                                                                                      1960 Oct p 115-124
  Switzerland, Paleolithic culture, 'lake-dwellers', prehistoric Swiss lake-
                                                                                     nerve conduction, reflex arc, motor neuron, membrane potential,
       dwellers
                                                       1961 Dcc p 138-147
                                                                                       inhibitory impulse, transmitter molecules, nerve excitation, activity
 sychrotron radiation, Crab Nebula, X-ray astronomy, Scorpius, neutron
                                                                                       at the neural synapse
                                                                                                                                  1965 Jan p 56-66 [1001]
      stars, X-ray astronomy by rocket-borne instruments
                                                                                     central nervous system, reflex arc, neuromuscular control, muscle
                                                         1964 June p 36-45
                                                                                       contraction, nerve inhibition, interneuron, motor neuron, stretch
 syllogisms, logic macline, Stanhope demonstrator, Boolean algebra,
                                                                                                                                      1966 May p 102-110
                                                                                       reflex, Renshaw cell
      symbolic logic
                                                         1952 Mar p 68-73
                                                                                    bacterial toxin, tetanus, botulism, paralysis, nerve impulse, inhibitory
 Sylvester method, artificial respiration, Schaefer method
                                                                                       impulse, motor neuron, Clostridium tetani, Clostridium botulinum
                                                          1951 July p 18-21
                                                                                                                                       1968 Apr p 69-77
 symbiosis, virus, herpes simplex, chick-embryo culture
                                                                                    aplysia, neurones, behavior, learning, memory, heterosynaptic
                                                         1949 Nov p 50-53
                                                                                      facilitation, memory and learning at nerve-cell level
    tarantula, digger wasp, predator-prey relationship 1952 Aug p 20-23
                                                                                                                                 1970 July p 57-70 [1182]
   rummants, metabolism, cellulose digestion, anaerobic metabolism,
                                                                                    acetylcholine, nerve impulse, neurotransmitters, nerve muscle synapse,
      fermentation, how cows digest grass
                                                         1958 Feb p 34-38
                                                                                      chemical mediation of neuromuscular transmission
                                                                                                                              1977 Feb p 106-118 [1352]
   sand dune ecology, thermoregulation, succulent plants, behavioral
      adaptation, adaptation, adaptive mechanism for life in hot acid
                                                                                    nerve circuits, dendrites, postsynaptic potential, olfactory bulb, retina,
                                                                                                                               1978 Feb p 92-103 [1380]
      environment
                                                         1959 July p 91-99
                                                                                      microcircuits in the nervous system
                                                                                 synchronous muscle, muscle fibril, sarcoplasmic reticulum, insect flight,
   algae, lichens, fungi, desert ecology, polar ecology, symbiotic nature of
                                                 1959 Oct p 144-156 [111]
                                                                                      asynchronous muscle, insect flight muscles
      lichens
                                                                                                                                1965 June p 76-88 [1014]
   ecological niche, reef ecology, cleaning behavior, animal behavior,
                                                                                 synchrotron, colliding beam accelerator, cyclotron, high energy physics,
     behavioral integration of reef ecology
                                                  1961 Aug p 42-49 [135]
                                                                                      strong-focusing synchrotron, design and purposes of big accelerators
   algae, lichens, fungi, fungi as symbionts in lichens
                                                                                                                                1958 Mar p 64-76 [251]
                                                      1963 Feb p 122-132
                                                                                   high-energy physics, storage rings, particle accelerator, colliding beam
   fungi, orchids, mycorrhiza, plant evolution, adaptation, adaptive ability
                                                                                                                              1966 Nov p 107-116 [323]
                                                        1966 Jan p 70-78
                                                                                     accelerator, spark chamber
     of orchids
                                                                                  particle accelerator, National Accelerator Laboratory, proton beam,
   bacteria, algal bloom, blue-green algae, simplest plants, resemblance to
                                                                                                                                     1974 Feb p 72-83
                                                                                     neutrino beam
                                                       1966 June p 74-81
     bacteria
                                                                                                                                        1953 June p 45
   alkaloids, butterfly, larvae, insect repellants, behavioral adaptation,
                                                                                  elevator engineer Christofilos
                                                                                synchrotron radiation, radio star, supernovae, Crab Nebula, natural
     plant evolution, mimicry, butterfly-plant association
                                                                                                                                    1957 Mar p 52-60
                                              1967 June p 104-113 [1076]
                                                                                    synchrotron
                                                                                  radio galaxies, gravitational collapse, nonthermal emission,
   chloroplast, mitochondria, cell organelle, DNA, prokaryote origin,
     protein synthesis, plastids, cell evolution, extra-nuclear genetic
                                                                                    supernovae, intensity of galactic radio emission
                                                                                                                               1962 Mar p 41-49 [278]
                                                1970 Nov p 22-29 [1203]
     activity in cell
                                                                                  red shift, radio galaxies, radio astronomy, lunar occultation, quasars
   cell evolution, cell organelle, chloroplast, endosymbiosis, eukaryotic
                                                                                                                                    1963 Dec p 54-62
                                                                                    found to be extra-galactic
     cells, mitochondria, prokaryotic cells, algae, cilia, flagella, plastids
                                                                                 cosmic radiation, radio galaxies, galaxy M 82, exploding galaxies,
                                                1971 Aug p 48-57 [1230]
                                               1973 Apr p 96-102 [1270]
                                                                                                                                    1964 Nov p 38-47
                                                                                   proposed origin of cosmic rays
  bee, bumblebee energetics, flower
                                                                                 cosmic radiation, cosmic ray showers, supernovae, galactic halo,
                                                     1975 Apr p 96~105
  bivalves, clams, marine life, mollusks
                                                                                   particle acceleration, abundance, energies, sources of cosmic rays
  animal behavior, lions, predator-prey relationship 1975 May p 54-65
                                                                                                                                   1969 Feb p 50-63
  algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic
                                                                                 electromagnetic spectrum, electron manipulation, electron storage
     engineering, Haber process, rhizobium, legumes, nitrogenase,
                                                                                   rings, spectroscopy, X-ray lithography, X-ray probe, uses of
                                                      1977 Mar p 68-81
     biological nitrogen fixation
                                                                                                                             1977 June p 32-41 [365]
  bacteria, bioluminescence, fish, flashlight fishes 1977 Mar p 106-114
                                                                                   synchrotron radiation
                                                                              synchrotron radiation microscope, idea dies with Cambridge Electron
                                                          1977 Oct p 81
  calveria tree, dodo bird
                                                                                                                                      1974 Feb p 44
symbolic language, chimpanzee, learning, operant conditioning, binary
                                                                              synchrotron seismograph, CERN instrument 'feels' tremors
     numbers, animal behavior, chimpanzee learning arithmatic
                                                                                                                                     1960 Nov p 94
                                               1964 May p 98-106 [484]
                                                                              syntactic analysis, computer applications, analog-to-digital conversion,
symbolic logic, Boolean algebra, switching circuits, paradox
                                                                                  computer modeling, computer technology, computer as instrument
                                                      1950 Dec p 22-24
                                                                                                                               1966 Sept p 160-172
                                                                                  and as 'actor' in science
  logic machine, Stanhope demonstrator, Boolean algebra, syllogisms
                                                                             syntactic rules, grammar, language organization, linguistics, speech
                                                     1952 Mar p 68-73
                                                                                                                          1973 Dec p 110-117 [556]
                                                                                  errors, spoonensms
  mathematics, philosophy, Leibnitz, calculus, calculating machine,
                                                                             syntax, verbal communication, communication, acoustic formants,
                                                    1968 May p 94-100
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phonetics, markedness/unmarkedness dyad, morphemes, context

Earth crust, mountain formation, isostasis, granitization, ocean basins,	telephone systems, communication networks, communication satellite,
ocean floor, comprehensive review of understanding (before	electronic switching, multiplexing, network theory, radio,
acceptance of continental drift) 1950 May p 32-41	communication, television systems 1972 Sept p 116–128
geology, mathematical model, scaling, block fault, geosynchine,	telescope, astronomy, image enhancement, electronic camera, image
experimental geology 1961 Feb p 96-106	intensifier, electronic image processing 1956 Mar p 81-90
dust storms, Mars, terrestrial planets, cratering, mountain formation,	camera, lens design, interferometry, computer graphics, image
erosion, hydrology, solar system 1975 Sept. p 106-117	formation, light 1968 Sept p 96–108
teepee, building construction, architecture, primitive architecture,	120-inch telescope to be orbited 1974 Feb p 44
climate, igloo, vurt, tent, sod hut, adobe house, hogan, stilt house	television, content analysis, allocation of time, a critical review by
1960 Dec p 134-144	educators 1951 June p 15–17
teeth, enamel, dentin, metabolism, fluoridation 1953 June p 38-42	underwater 1953 June p 32–37
tektites, meteoritic impact, strewn fields, origin of glassy stone	aggression, violence, delinquency, motion picture film, catharsis, effects
1961 Nov. p 58-65 [802]	of observing filmed violence 1964 Feb p 35-41 [481]
Earth, meteorites, moon, moon as source of tektites	cable television, communication technology, wired-city concept
1964 Feb p 30-37	1971 Oct p 22–29
comet, geomagnetism, magnetic reversals, meteorites, meteoritic	two million families glued to tube 1949 Sept p 26
impacts 1967 July p 32–38	in education 1951 Jan p 27
from Earth or moon? 1961 June p 86	educational programming 1952 Mar p 40
chemical composition 1962 June p 84	suppression abreaction 1955 July p 52
another hypothesis 1962 Nov p 72	see also color television
Wilkes Land anomaly 1962 Dec p 68	television camera, Mars, space exploration, computer enhancement,
Telanthropus, a species of genus Homo 1970 June p 52	telemetry, computer graphics, Mariner IV photographs, Martian
telecommunication, artificial satellite, communication satellite, orbital	topography 1966 Apr p 54–68
motion, Echo II satellite, radio, satellite communication systems,	vision, retina, photographic emulsion, vidicon, photochemistry, light,
consideration of alternatives 1961 Oct p 90–102	image detection, electronic camera 1968 Sept p 110-117
artificial satellite, communication, data transmission, pulse-code	Mariner 6, Mars, Mariner 7, telemetry, orbital motion, polar cap,
modulation, digital transmission 1966 Sept. p 144–156	cratering, surface pictures and map of Mars 1970 May p 26-41
communication technology, digital transmission, microelectronics	television for farm areas, transmitter ranges to overlap 1948 Dec p 26
1977 Sept p 192–209 [382]	television receiver, liquid crystals, display devices, dynamic scattering,
radio astronomy, channels reserved for astronomical study	storage mode 1970 Apr p 100–106
1959 Dec p 82	television systems, communication networks, communication satellite,
radio astronomy, UHF TV bands to radio astronomy	electronic switching, multiplexing, network theory, radio,
1963 July p 65	communication, telephone systems 1972 Sept p 116–128
telemetry, artificial satellite, orbital motion, rocket launcher, plans for	television violence, communication, mass-communication media, message
US 10-pound (pre-Sputnik) satellite 1956 Nov p 41-47	systems, cultural patterns, sociology, mass communications as social
artificial satellite, solar particles, cosmic radiation, Van Allen belts,	environment 1972 Sept p 152–160 [679]
geomagnetism, radiation belts, space exploration, mapping of	temperament, behavior, encephalius, hyperactive child, genetic disease,
radiation belts by Explorer satellites 1959 Mar p 39-47 [248]	amphetamines, possibly innate disease syndrome
ultraviolet radiation, Sun, astronomy, rocket-borne instrumentation	1970 Apr p 94–98 [527]
1959 June p 52–59	personality, child development, parental care, infant behavior,
Arctic Ocean, ocean circulation, meteorology, Northeast Passage, ice-	interaction of temperament and environment, nature-nurture
floe islands, bathymetry, marine biology, Soviet Arctic research	1970 Aug p 102–109 [529]
1961 May p 88–102	'temperate' infection, carcinogenesis, polyoma virus, recombinant DNA,
weather satellites, Tiros, atmospheric circulation, heat budget of Earth,	virus disease, genetic transduction, viral induced malignancy
air masses, videocameras, photographic weather maps, weather	1960 Nov p 63-71 [77]
forecasting 1961 July p 80-94	temperature, heat, thermodynamics, quantum mechanics, entropy,
gamma-ray astronomy, astronomy, Earth satellite, first glimpse of	equation of state, energy, black body radiation, What is heat?
gamma-ray sky 1962 May p 52-61	1954 Sept p 58-63
Mariner 2, space exploration, Venus, navigation, orbital motion, high-	degrees C, means Celsius, not Centigrade 1949 May p 26
resolution studies of Venus 1963 July p 70-84	see also day-night temperature, high temperature, low temperature,
animal migration, animal navigation, turtles, sexual behavior, nesting,	body temperature
Chelonia mydas, green turtle, 1,400-mile journey 1965 May p 78–86 [1010]	temperature at a distance, optical pyrometer 1955 Oct p 50
artificial satellite, Mars, space exploration, Mariner 4, spacecraft	temperature limits, heat, chemistry, regenerative furnace, nitrogen
navigation, spacecraft 1966 Mar p 42~52	fixation, high temperatures chemistry 1954 Sept p 109-119
Mars, space exploration, computer enhancement, television camera,	heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept. p. 98-106
computer graphics, Mariner IV photographs, Martian topography	temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal
1966 Apr p 54-68	sediments, paleontology, glaciation, climatic change, measurement
animal migration, polar bears, satellite, Arctic, satellite tracking of	
migratory animals 1968 Feb p 108–116 [1102]	of ancient temperatures 1958 Feb p 54-63 temperature of Earth, climate, air pollution, atmospheric circulation,
moon, lunar surface, space exploration, high-resolution photography,	carbon dioxide 'window', particulates, ozone, human activity and
Lunar Orbiter space missions 1968 May p 58-78	chmatic change 1971 Jan p 32–42 [894]
Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television	temperature range, heat, life, heat and life 1954 Sept p 64-68
camera, cratering, surface pictures and map of Mars	temperature regulation, 'cold-blooded' animals, ectothermy, metabolism,
1970 May p 26-41	heterothermy, insect flight, sphinx moths, Mandura sexta warm-up
signal reinforcement by artificial satellites, ghost effect	mechanisms 1972 June p. 70-77 (1252)
1961 Jan p 88	temperature standard, cesium clock, length standard, mass standard, time
telephone, electronic telephone, solid-state electronics, integrated circuits,	Standard, interferometry, measurement 1069 June 2 50 62
telephone based on integrated circuits 1978 Mar p 58-64 [3002] trans-Atlantic coaxial 1955 Aug. p 47	temple of Apollo, Greek civilization, underwater archeology
**************************************	1971 Oct p. 110, 110
optical telephone, system tested 1964 Apr p 64	remporar relations, biological clock, time perception, temperature-time
telephone 'cable', wave guide 1955 Apr. p. 47	interrelation, kappa movement effect 1064 Nov. = 116 124
telephone switching, electronic switching, electromechanical switching	tendon organ, muscle control, muscle spindles, per chapte are server
markers, electronic replaces electromechanical switch	recuback, servomechanisms, stretch reflex 1972 May p. 30-37 [1249]
1962 July p 132-143	1063 Am = 104 114 F1 F1
3. W- 10	process a contain on, droplet-levitation technique, liquids, negative-
	pressure concept, surface tension 1972 Dec p 58–71
<i>!</i>	

commerce, invention, patent-law reform

Tasmanian devil, aborigine, stone tools, Paleolithic man, dingo,	
Australian aborigine, antiquity of man in Australia	Chinese industry, economic development, progress of People's
1966 Mar = 94 02 (c)	Republic of China in computer electronics, instrumentation and control technologies 1977 Dec. p. 13-17
Visible Visibl	Bruegel the Elder Repaisement technologies 19/2 Dec p 13-17
amori, i dilidlid, vanishing primitive cultures 1957 X i.e 20	knowledge at work 400 years ago 1978 Mar p 134-140 [3003]
taste, chemical senses, olfaction, chemoreceptor	implications of fautomation?
1952 Mar p 28-32 [40 silkworm, olfaction, chemical senses, insect chemoreception,	see also medical technology, agricultural technology and the like
	recimology assessment, color television, nieture elements, line structure
taste buds, hearing, vision, sensory organs, ominatidia, neuroreceptor	field-scanning rate, competing color television systems weighed
cens, cytology, now tells receive stimuli 1961 Sent n 222-228 to	1950 Dec p 13-17
taste receptors, sensory perception. Pacinian corpuscle touch officient	, remarked by, mande mae, o s 1 DA in mande mae
receptors, mechanoreceptors, pain receptors, biological transducers	catastrophe 1962 Aug p 29–35 [1100]
1960 Aug n 98_108 176	air transport, science policy, automobile transportation, air pollution, noise pollution, technology assessment institutions proposed
blowly, chemoreceptor 1961 May p. 135 14	1970 Feb p 13-21 [332]
tau particle, leptons, heavy leptons, elementary particles, small light- particle family gains new member 1978 Mar p 50-57 [398	decision theory, energy economics, power production, tort law,
particle family gains new meinber 1978 Mar p 50-57 [398 tawn) owl, animal behavior, nocturnal animals, predator-prey	economic planning, market process 1971 Sept p 191–200 [671]
relationship 1955 Oct p. 88-0	clectromagnetic spectrum, irradiation standards, microwave diodes,
relationship 1955 Oct p 88-9 taxation, housing, land use, population density, shantytowns, governmen	
regulation, urban planning, cities, control of land use	
1965 Sept. p. 150–160	response strategy, limited nuclear war 1976 Nov p 27-37 energy resources, fuel imports, liquid natural gas, risk estimation,
air pollution, cities, water supply, sewage disposal, smog, water	tankers, LNG 1977 Apr p 22-29
pollution, Los Angeles, New York, metabolism of cities	Congressional report 1966 Dec p 57
1965 Sept p 178–190	U S institutions urged 1969 Oct p 46
on sulfur in fuel 1971 Mar p 48	8 technology and law 1971 Feb p 45
taxonomy, botany, set theory, computer applications, zoology, numerical taxonomy, computer classification of living things	legislation establishes agency 1972 May p 48
1966 Dec p 106–116 [1059	tanker operation 1975 Nov p 58 coal technology, coal-slurry pipelines 1978 Mar p 70
new nucrocrustacean 1955 Mar p 54	coal technology, coal-slurry pipelines 1978 Mar p 70 technology history, rocket engine, reaction propulsion, regenerative
Tay-Sachs disease, amniocentesis, enzyme deficiency, genetic disease.	motor, liquid fuel, status of the technology on eve of space age
prenatal genetic diagnosis, hemophilia, Down's syndrome.	1949 May p 30–39
chromosomal anomalies 1971 Nov p 34-42 [1234]	friction, Leonardo, Coulomb, sliding surfaces, molecular cohesion,
enzyme deficiency, fat metabolism, genetic disease, amniocentesis,	'coppering' 1951 Feb p 54-58
lipids, lipid-storage diseases, 10 lipid-storage diseases	steam engine, mine drainage, Watt, pumps, Industrial Revolution, Newcomen engine, origins of steam engine 1964 Jan p 98-107
1973 Aug p 88-97 Taylor column, Jupiter, Great Red Spot, planetary atmosphere, rotation	New comen engine, origins of steam engine 1964 Jan p 98-107 bearing, friction, gears, Leonardo, Codex Madrid I
period, hydrodynamic explanation vs raft hypothesis	1971 Feb p 100-110
1968 Feb p 74-82	automobile design, automobile racing. Paris-Bordeaux race of 1895
teacher expectations, educational performance, social deprivation,	1972 May p 102-111
experiment in self-fulfilling prophecy for disadvantaged children	bicycle technology, economic development 1973 Mar p 81-91
1968 Apr p 19-23 [514] pupils performance 1976 Nov p 54	coal technology, Industrial Revolution, iron smelting, blast furnace, Newcomen engine 1974 Aug p 92-97
teaching machine, operant conditioning, inductive reasoning, rhythm,	barge transport, canals, transportation, in U S 1976 July p 116-124
education, self-teaching by small, rigorous steps	fossil fuel coal technology, Industrial Revolution, 16th c energy chais,
1961 Nov p 90–102	wood-fuel shortage 1977 Nov p 140-151 [391]
computer technology, education, programmed instruction,	electric chair, Edison (DC) vs Westinghouse (AC) 1973 Apr p 45
individualized teaching 1966 Sept p 206-220 [533]	technology transfer, economic development, Industrial Revolution, introduction to single-topic issue on technology and economic
tear gas, bacteria, chemical weapons, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, herbicide, chemical-	development 1963 Sept p 32-01
biological warfare 1970 May p 15–25 [1176]	economic development, agricultural technology, human nutrition, food
tears, lacrimal gland, hypothalamus, nerve impulse, reflex, psychogenic	production nutritional self-sufficiency in economic development
and continuous tears 1964 Oct p 78-86	1963 Sept p 72-80 [1153]
Teays river, fossil river, Kanawha river 1952 June p 74–80	economic development, industrialization, mineral resources, metal consumption, natural resources and technological substitution
technetium, rust, corrosion, oxidation, studies in corrosion 1956 May p 35-39	1963 Sept p 128-130
in the Sun 1951 Sept p 54	industrial technology, Nigeria, economic development, tribal politics,
technical assistance, developing countries, economic development,	economic development of former colonial region 1963 Sept p 168-184
industrialization, 'point four' 1950 Mar p 16–19	economic development, industrialization, population control.
foreign aid, technology transfer, developing countries, human	agricultural production, food production, economic planning, India,
population 1974 Sept p 172-162 technological innovation, science history, windmills, pumps, blast furnace,	economic development by democratic planning
hallows medieval technology medieval uses of the air	1963 Sept p 189–206
[970 Aug p 92–100 [330]	economic development, industrialization, economic planning market process versus planning in economic development
electronic circuitry, integrated circuits, microelectronics, silicon 'chips',	1963 Sept p 235-244
introduction to single-topic issue on microelectronics 1977 Sept p 62-69 [374]	foreign aid, developing countries, technical assistance, human
technological unemployment, racial discrimination, US Black	population 1974 Sept p 172–182
	green revolution', India, food and agriculture, monsoons, irrigation, fertilizers, rice, agronomy, wheat, hybrid crop plants
technology Farth crust. Mohorovicic discontinuity, Mohole, Latti	1976 Sept p 154–163
	developing countries, 'green revolution', food and agriculture,
mantle, objectives of Monoie Project automatic control, economics, input-output analysis, labor force, U S impact of technological change, 1947-1958, input-output tables	1976 Scot p 196–203
	tectionic processes, mountain formation, Earth mantle, convection currents, the 'blister hypothesis' 1949 June p 16-21
commerce, invention, patent-law reform 1967 June p 19-27	moon, cratering, meteorites, origin of lunar craters 1949 July p 20-24
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	the state of the s
perpetual motion, Maxwell's demon, second law of thermodynamics 1967 Nov p 103-110 [317]	sand dune ecology, succulent plants, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment
friction, perpetual motion machines, entropy 1968 Jan p 114-122	1959 July p 91-99
energy-information interaction, entropy in communication, power,	comparative psychology, desert adaptation, kidney function, salt-water
information flow, information theory 1971 Sept p 179–188 [670]	balance, man camel comparison 1959 Dec p 140-151 [1096]
	homeostasis, hypothalamus, human physiology, human body
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1958 Nov p 31-37	
sound energy, heat conduction, cryogenics, phonon, quantum	behavioral adaptation, ground squirrels, Mojave desert, animal
mechanics of heat conduction 1962 Dec p 92-104 [288]	behavior, kidney function, desert adaptation, desert mammals'
heat-to-electricity technology 1958 Nov p 58	adaptations to heat and aridity 1961 Nov p 107-116
bimetallic thermocouple 1959 Jan p 64	dermatoglyphics, skin, hair, surface area, skin glands, structure and
thermography, medical diagnosis, tumor, arthritis, skin temperature,	function of human skin 1965 Feb p 56-66 [1003]
circulatory disorders 1967 Feb p 94-102	adipose tissue, hibernation, brown fat, homeostasis, metabolism, cold
	adaptation, neonatal physiology, heat production in newborn
thermomagnetic cooling, crystallography, magnetothermoelectricity,	animals, including man 1965 Aug p 62-65 [1018]
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technology, technological applications of 19th c discoveries	1965 Dec p 76-84 [1029]
1961 Dec p 124-136	circulatory system, cold adaptation, fur, metabolism, insulation
thermomechanical processing, materials technology, metalliding,	1966 Jan p 94-101 [1032]
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can be formed like plastics 1969 Mar p 28-35	oryx, survival without drinking 1969 Jan p 88-95
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cycle, power, radiation energy, entropy per unit energy, gravitational	tuna, warm-bodied fishes 1973 Feb p 36-44 [1266]
	thermostat, control systems, feedback, water clock, windmills, automatic
	control, flyball governor, origins of feedback control
thermonuclear reaction, solar system, Sun, cosmology, dust cloud	
hypothesis, gravity, light pressure, gravitational collapse, genesis of	1970 Oct p 110-118
solar system 1948 May p 35-45	thin-film optical devices, interferometry, fluorescence, wave motion, light
Sun, carbon cycle, sunspots, solar spectrum, nearest star	waves, monomolecular films, fatty acids 1970 Mar p 108-119
1948 Nov p 26-39	integrated circuits, laser light manipulation, light propagation in thin
proton-proton interaction, carbon cycle, stellar energy	films, optical circuits, photons instead of electrons in circuits
1950 Jan p 42-45	1974 Apr p 28–35
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published at the time the US government determined to proceed	think' 1949 Aug p 36-39 [415]
with its development, production, perfection and deployment	thioctic acid, fungi, mushrooms, mushroom poisoning, toxins, Amanita
1950 Mar p 11–15	phalloides 1975 Mar p 90-101
heat, stellar interiors, hydrogen bomb, solar corona, proton-proton	thirst, diabetes insipidus, salt excretion, electrolyte balance,
interaction, helium reaction, ultrahigh temperatures	thermoregulation, urine, kidney, physiological psychology,
1954 Sept p 144-154	osmoreceptor theory of thirst, Cannon 'dry mouth' theory
nuclear power, 'atoms for peace', fission reactor, fusion reactor,	1956 Jan p 70–76
CERN, first of a four-part report on the International Conference	Thomas Aquinas, concordance by computer 1957 Oct p 64
on the Peaceful Uses of Atomic Energy, Geneva, August 1945	Thompson, growth, form, science history, life and work of D'Arcy
1955 Oct p 27–33	Thompson 1952 Aug p 60–66
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elements, particle accelerator, experimental astrophysics	human physiology, vital capacity, mechanics and physiology of
1956 Sept p 82-91	breathing, anatomy of lung 1966 Feb p 56-68 [1034]
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1957 Dec p 73-84 [236]	economics, uranium cycle, breeder reactor development
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1967 July p 76–88	liquid-metal reactor, fission reactor, energy demand
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semicrystalline polymers, synthetic polymers 1975 Dec p 96–106	biology, fibrin, role of thrombin in converting fibrinogen into fibrin
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	thrombus, blood clotting, Dicumarol, anticoagulant therapy
hummingbird, metabolism, body temperature, hibernation, surface-to-	1951 Mar p 18-21
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volume ratio 1953 Jan p 69-72 shrews, body temperature, metabolism, surface-to-volume ratio	hypothesis, plaque formation 1977 Feb p. 74 95 (1251)
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diabetes instructus, there salt exercises electrolists belong a service.	sound frequency 200 cycles per second 1968 Esh = 54
diabetes insipidus, thirst, salt excretion, electrolyte balance, urine,	lightning, classifying bolts by sound
kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan p 70-76	thundercloud, lightning, ionization, physics of the lightning bolt
fever lend ocyte homeostasis himsphales and a stale of favor	1040 Eab 22 05
fever, leukocyte, homeostasis, hypothalamus, etiology of fever	manderstorms, dicting cens, origin and course 1950 tons 40 co
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behavioral adaptation, 'cold blooded' animals, pigmen lation, lizard, repule, behavioral thermoregulation 1959 Apr p 105-120	thanderstorms replement carrie charge 1051 4 22 45
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1969 Nov. p. 102 11	preservatives, safety of additives 1972 Mar p 15-21
tent, building construction, architecture, primitive are lutesture, character	
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1961 Feb p 132-142 'Terman sample', scientists, sociability, social psychology, scientists and	therapsids, reptile, dinosaurs, mammalian evolution, paleontology,
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1955 Jan p. 25-29 [437]	soaring, wind velocity, air currents, aerodynamics, ornithology, bid
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	bird flight, gliding birds, soaring, vultures, lift phenomena
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1953 May p 74-78	thermal conductivity, heat conduction, phonon, thermal waves, materials
Africa, entomology, insect behavior, air conditioning, airconditioned termite nests	technology, thermal properties of materials 1967 Sept p 180-188
1301 3419 pt 130-12-53	boundary-phase hypothesis, superdense water, water II,
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1949 Apr p 48-51 [258] oad, anımal behavior, escape response, neurophysiology, visual	Koenigsberg bridges, four-color-map problem, three-cottages problem 1950 Jan p 18-24
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obacco, carcinogenesis, cigarette smoking, human physiology, lung cancer, coronary disease, effects of smoking 1962 July p 39-51	Koenigsberg bridges 1953 July p 66-77 shape, polygons, polyhedra, tessellation, space-filling
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adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma	history and current uses of geometry 1964 Sept p 60-69 fixed point theorems, mathematics, surface deformation, contraction
virus, herpes virus, influenza virus, vaccinia virus, bacteriophage, structure of viruses 1963 Jan p 48-56	1966 Jan p 105–110
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sequence, mutation, relation of RNA mutations to amino acid changes 1964 Oct p 46-54 [193]	1966 May p 112–120 catastrophe theory, discontinuous phenomena, mathematical model
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systems for fusion power 1975 Mar p 48	Radio Observatory 1956 Oct p 56-64 meteorology, radar tracking, thermal updraft, weather forecasting
tomato harvester, mechanical harvesting, cotton picker, agricultural technology, hay cuber, cherry picker, grain combine	1958 May p 31–37
1967 Aug p 50-59	outbreak in US 1975 June p 49
tombs, Scythian culture, Siberia, refrigerated tombs, archeology, Altai	tornadoes on radar, from start to finish 1953 Aug p 42
Mountains, cloth, leather and wood artifacts preserved by refrigeration 1965 May p 100-109	tort law, decision theory, energy economics, power production, technology assessment, economic planning market process
tomography, computer algorithms, computer-assisted imaging, image	1971 Sept p 191-200 [671]
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1975 Oct p 56-68 tone ladder, musical scale, Pythagorean doctrine, music and mathematics,	sphere proof 1966 May p 112–120 touch, sensory perception, Pacinian corpuscle, olfactory receptors, taste
harmonic proportions, Kepler, vibrating string 1967 Dec p 92-103	receptors, mechanoreceptors, pain receptors, biological transducers
Mandarn Chinese, Chinese writing, computer translation, Mandarn Chinese, Chinese dialects 1973 Feb p 50-60	1960 Aug p 98–108 [70] learning, sensory perception, vision, visual perception dominates touch
Tonga Trench, Pacific Ocean, earth crust, Acapulco trench, Cedros	1967 May p 96-104 [507]
Trough, ocean floor 1955 Nov p 36-41 [814]	touch orientation, plant movement, nastic movement, turgor movement,
tonsils, adenoids, myriads of viruses 1954 Nov p 50 tool assemblages, stone tools, multivariate analysis, factor analysis,	geotropism, phototropism 1955 Feb p 100-106 touch, sensory perception, conditioned behavior, learning, long-term
computer analysis, Paleolithic archeology, Bordes method, stone	memory, short-term memory, lobotomy, octopus, correlation of
tools as fossils of behavior 1969 Apr p 70-84 [643] tool inventories, Solutrean culture, Upper Paleohthic hunting peoples,	brain structure and function in octopus 1965 Mar. p 42-50 [1006] Tower of Babel, Elamite culture, ziggurat, religion, Biblical archeology,
stone tools, France, 21,000 years ago 1964 Aug p 86–94	1000 B C, Iran 1961 Jan p 68-76
tool-using, primate behavior, chimpanzee, social behavior, comparative	towing tank tests, marine engineering, yacht design, hull design, sail
psychology, observation of chimpanzees in the wild 1962 May p 128–138 [463]	design 1966 Aug. p 60-68 toxicity, antibiotics, infectious disease, bacterial resistance, virus disease,
toolmakers, human evolution, evolution of behavior 1953 Dec p 65-72	status of new medical technology 1949 Aug p 26-35
human evolution, Olduvai Gorge, man-apes, hand axes, stone tools 1954 Jan p 66-71	diphtheria toxin, diphtheria toxoid, diphtheria antitoxin, cytochrome
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1962 Dec p 56-62 [140]	citric-acid cycle, alkaloids, lethal mechanisms at cellular level
hominid, Olduvai Gorge, human evolution, foodsharing, evolution of behavior, evidence for protohuman behavior in two-million-year-old	1959 Nov p 76-84 bacterial infection, endotoxins, exotoxins, bacterial toxin, effects of
Siles 1978 Apr p 90–108 (706)	endotoxins 1964 Mar p. 36.45
Australopithecus prometheus 1955 Aug. p 50 bag carners 1970 Jan p 52	lungi, mushrooms, mushroom poisoning, Amanita phalloides thioctic
human evolution, bones found near Olduvzi Gorge 1976 Oct p 57	acid 1975 Mar p 90-101 toxoplasmosis, parasitism, intracellular parasite, infectious disease,
tools, surgery, scalpels 1951 Nov p 62–66	encephalitis, insect vectors 1053 Feb 2000
agricultural revolution, Neolithic archeology, slash-burn agriculture, cultural evolution, Sione Age forestry and agronomy	trace elements, iron, manganese, zinc, copper, magnesium, iodine, human
1956 Mar p 36-41	cobalt, desert ecology, land reclamation, vitamin B12 synthesis
Polynesian culture, cultural evolution, language, settlement of South Sea Islands, origin of Polynesians 1956 Aug p 58-72	agricultural technology, reclamation of infertile Austrialian land
tooth enamel, caries, dentistry, bacteriology, causes of tooth decay	1959 Jan p 97-106 microanalysis, neutron activation, radionuclides, decay properties
1957 Dec p 109-116	1067 A (0.02
lopography, ocean floor, Aleulian Trench, seamounts, fathogram, sonar	obsidian, trade, Neolithic archeology, Neolithic trade pattens deduced
cono-sounding, the Pacific floor 1952 Apr = 19 22	tracer chemistry, tritium, cosmic radiation, lithium, nuclear reactor,
topological isomer, catenane, chemical topology, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring	144101501006
molecules 1962 Nov p 94-102 [286]	tracer experiments, photosynthesis, chlorophyll, carhon dioxide, water
. ,	1948 Aug p 24-35

thymine dimer, DNA replication, ultraviolet radiation, mutation rate,	nardy company CNT
radiation damage, repair of DNA 1067 Fab = 26	parity, symmetry, CPT mirror, mirror images
thymus, antibody production, minunology, lymphocytes, DNA, autointimune disease, thymus role in producing antibodies	antigravity, CPT symmetry, antimatter, probability, philosophy of
1962 Nov n 50 57 112	Science 1967 for p 92-168
antibodies, lymphatic system, immune system, lymphocytes, thymus	LONSCIVATION prolon spin unpermente in terrange and
implant in mouse, humoral factor 1964 billion 66 7	1769 Oct p 88-101
antibodies, bursa, cell differentiation, humoral intimunity, B-cells, F-cells, fittinune system, lymphocytes 1974 Nov. p. 58–72 [1306]	arrow of time, entropy, information theory, hierarchy of structures.
thy roid, gotter, metabolism control, thyroxin, pituitary gland, role of	macroscopic information increase 1975 Dec. n. 56-69
inyroid in governing metabolism 1960 Mar n. 110-12	time reversal invariance, K meson decay results 1964 Sept p 81
calcitonin, inetabolisiit, calcium nietabolism, bone, luman physiology	9 fifth force suspected 1964 Dec p 62 time-sharing, man-machine interface, computer technology, multipe
normone, recognition and characterization of calcitonin	terninals, multiple users 1966 Sent n 128-140
1970 Oct p. 42-50	time-space continuum, gravity, Einstein, electromagnetism
gotter, hypothyroidism, iodine deficiency, epidemiology, iodized	1961 Mar p 94-106
1971 June p 92-101 [1223 thyroid hormone, tadpole, frog, amphibian metamorphosis, chemistry of	
amphibian metamorphosis 1963 Nov p 110-118 1170	standard, interferometry, measurement 1968 June p 50-62 time symmetry, see CPT symmetry
thyroid-stimulating hormone, ACTH, hormone, sexual characteristics	tin, elements, living matter, essential elements, metallo-enzymes, fluonne,
growth, follicle-stimulating hormone, prolactin, androgens,	silicon, vanadium, list of elements essential to life lengthened to 24
estrogens, secondary sexual characteristics, human physiology, endocrine system, chemical integrators of the body	1972 July p 52-60
1957 Mar p 76-88 [1122]	Tiros, weather satellites, telemetry, atmospheric circulation, heat budget
hormone, hypothalamic hormone, lutcinizing hormone, neurohumoral	of Earth, air masses, videocameras, photographic weather maps, weather forecasting 1961 July p 80-94
factors, pituitary control, TSH 1972 Nov. p. 24-33 [1260]	tissue, fat metabolism, hormone, obesity, fat ussue, diet, role of fat
thyroidectomy, conditioned reflex, neurosis, operant conditioning,	metabolism in human physiology 1959 Dec p 70-76
Pavlov, psychology, stress, emotional behavior, neurosis, conditioned reflex is shown to be a neurosis 1954 Jan p. 48-57 1418)	tissue culture, cancer, tissue grafts, medical diagnosis, cancer tissue grous
reflex is shown to be a neurosis 1954 Jan p 48-57 [418] thyraxin, goiter, thyroid, metabolism control, pituitary gland, role of	
thyroid in governing metabolism 1960 Mar p 119–129	plant tissue grafts, plant hormones, dedifferentiation of plant cells, plant growth requirements 1950 Mar p 48-51
actinomyosin, ecdysone, cortisone, insulin, estrogens, gene activation,	poliomyelitis virus, rhesus embryo, serial passage, polio vaccine, tissue
RNA synthesis, aldosterone, growth hormone, ACTH, mechanism of	culture of virus opens way to vaccine 1952 Nov p 26-29
hormone action 1965 June p 36-45 [1013]	cancer, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50-55
amphibian, metamorphosis, frog, pituitary gland, hypothalamus, neurosecretory system, hornione, chemistry of amphibian	culture 1956 Oct p 30-33 clone, HeLa cancer cells, cell culture, somatic cells, single human cells
metamorphosis 1966 May p 76-88 [1042]	1957 Aug p 91-100 [33]
Tibetan plateau, mountain formation, continental drift, earthquake zones,	enteroviruses, poliomyelitis virus, Coxsackie virus, echo viruses,
Gobi Desert, Himalaya formation, India-Eurasia collision, plate	epidemiology, benign and infectious intestinal viruses 1959 Feb p 88-97
tectonics, sea-floor spreading 1977 Apr p 30-41 ticklishness, explored in controlled experiment 1971 July p 45	embryonic development, tissue differentiation, dissociated cells,
ticklishness, explored in controlled experiment 1971 July p 45 tidal effects, stellar evolution, gravitation effects, contact binaries, binary	reassembly of dissociated tissue cells 1959 May P 132-144
stars, stellar fission 1968 June p 34-40	common cold, virus disease, 20 strains cultured 1960 Dec. p. 88-102
tidal energy, energy consumption, energy resources, fission fuels, power,	meiosis, mitosis, plant cell differentiation, clone, generation of whole
fossil fuel, fusion fuels, geothermal energy, solar energy 1971 Sept p 60-70 [663]	cell differentiation, embryonic development, pancreas, mesodern
tidal rhythms, biological clock, crabs, diatoms, marine algae, sand	endoderm 1969 Mar p 36-44 [1150]
hoppers, tidal-zone organisms, integration of biological and sidereal	cancer, SV40 virus, gene transformation, chromosome mapping
cycles 1975 Feb p 70-79 [1316]	somatic cells, hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
'tidal' waves, tsunamis, earthquakes 1954 Aug p 60-64 Pacific Basin warning system 1960 Oct p 88	1956 Feb p 30
Pacific Basin warning system 1960 Oct p 88 tidal-zone organisms, biological clock, crabs, diatoms, marine algae, sand	1978 Apr p 80
hoppers, tidal rhythms, integration of biological and sidereal cycles	tumor tissue, 'nude' mice in tumor tissue culture 1978 May p 88
1975 Feb p 70-79 [1316]	see also plant tissue culture, cell culture
tides, day's length, Earth-Moon system, lunar orbit, moon 1972 Apr p 42-52	tissue differentiation, insect metamorphosis, juvenile hormone, cellular specialization in insect development 1959 Feb p 100-110 [63]
tilapia, fisheries, aquaculture, proteins, food, pond culture	embryonic development, tissue culture, dissociated cells, reassembly of
1963 May p 143–152	dissociated tissue cells 1909 May p 152-17.
tilth, soil conditioners, humus, polyacrylates, polyvinylites, cellulose	cell aggregation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142-165
1953 Aug p 36-38 time, measurement, Brownian motion, velocity, uncertainty principle,	tiente grafte, cancer tissue culture, medical diagnosis, cancer tissue grows
Planck's constant, limits of measurement 1950 July p 48-51 [255]	in heterologous graft 1948 Dec. p. 40-45
Pythagorean theorem, special relativity, clock paradox	bacterial infection, blood proteins, gammaglobulin, antibodies, immunology, agammaglobulinemia, hereditary immunological
[963 Feb p 134-144	deficiency 1957 July p 93-104
calendar, solar system, planetary motion, heliocentric theory, year, astronomy, Copernicus, astronomy, Copernicus, length of calendar	hamster ammine reaction, tolerance of grafts
1900 Oct p 60-70	1963 Jan p 118-127 [148] cell membrane, immune response, organ transplant, tissue-typing, self-
1930 Feb p 50	marker hypothesis 1972 June p 28–37 [1251]
time-keeping, radar, microwaves, spectroscopy, molecular bonds, coherent radiation, resonance absorption, energy levels, quantum	embryonic ussue 1958 Apr p 32
	secured by histocompatibility gene 1960 Aug p 75
	tissue preservation, cryogenic storage, spermatozoon bank, frostbite,
Galileo's experiments, gravitational acceleration, made as the 1975 June p 98–104	6
measure	tissue specialization, embryonic development, cell differentiation,
time perception, biological ciocs, temporal retaining 1964 Nov. p. 116, 124 interrelation, kappa movement effect 1964 Nov. p. 116, 124 interrelation, kappa movement effect probability against it in	11 A standard "lamphrush" chromosome, embryonic development.
time reversal, symmetry, reversible reactions, processing p. 107-114	zvenie, fernization, ovum, cione, cytology, now cells specialize
macroscopic world	1961 Sept p 124-140

traumatic shock, shock, capillary bed, electrolyte balar	ce cardiovascular	tritum in nature, rarest isotope	1950 Nov p 26
system, blood transfusion	1952 Dec p 62-68	tRNA: transfer ribonucleic acid	•
salt-water treatment	1950 Dec p 29	tRNA, ribosome, protein synthesis, DNA, mRN	A, nucleus, chromosome,
traveler's diarrhea, Escherichia coli alien strain	1970 Mar p 64	cytology, how cells make molecules	1961 Sept p 74-82 [92]
traveling-wave accelerator, linear accelerator, electron	accelerator,	mRNA, genetic code, DNA, ribosome, proteir	
internal drift-tube accelerator 1954	Oct p 40-44 [234]		1963 Mar p 80–94 [153]
traveling-wave tube, microwaves, optical properties, M	faxwell's equations,	RNA, nucleic acid, nucleotide sequence, alann	ie, enzyme cieavage,
klystron, magnetron, waveguides, communication		fragment assembly, first nucleotide sequenc	966 Feb p 30-39 [1033]
	1952 Aug p 43–51	amino acids, protein synthesis, formylmethion	
tree cloning, city trees, pollution effects, ailanthus, gin	76 Nov p 110–118		1968 Jan p 36-42 [1092]
Norway maple 19 tree farming, resource management, gene manipulatio		gene transcription, protein synthesis, molecula	
techniques, forestry, Southern pine, seed-orchard	concept	of tRNA	1978 Jan p 52-62 [1377]
]	971 Nov p 94-103	nucleotide sequence for alanine tRNA	1965 May p 48
tree growth, insecticide	1952 May p 36	crystallographic RNA-structure study	1969 Mar p 50
tree-ring dating, see dendrochronology		trophallaxis, insect behavior, social insect, army	ant, ants, comparative
tree structure, auxins, adaptation, trees, plant hormor	nes, ax-head model,	psychology, reproduction, feedback, pheron	iones, natural history,
	1975 July p 92–102	philosophy of science, anthropomorphism trophoblast, fetus as transplant, histocompatabil	
trees, aphids, sap circulation, phloem, xylem, use of a	pnids to measure	immunological privilege, reproduction, nida	
forces in sap flow 1963 M	far p 132–142 [154]	minulological privilege, reproduction, inda	1974 Apr p 36–46
ecology, forest succession, leaf distribution 1975	av-head model	tropical agriculture, animal husbandry, ecosyster	• •
auxins, adaptation, plant hormones, tree structure, mechanical design of trees	1975 July p 92–102	agricultural system, power, New Guinea	,,
trefoil knot, topology, inner-tube eversion, Mobius ba			71 Sept p 116-132 [666]
Koenigsberg bridges, four-color-map problem, the	hree-cottages	tropical climate, agricultural production, equator	nal rain forests,
problem	1950 Jan p 18-24	laterization, developing countries, lateritic s	oıl
trench faults, ocean floor, East Pacific Rise, subterrar	nean heat flow,		964 Nov p 96-102 [870]
earthquakes, convection currents	1961 Dec p 52-61	tropical flora, coal, fossil, flora, Mississippian pe	
triage, medical care, medicine, physical incapacitatio	n, morbidity,	period, Carboniferous period, deposition of	
mortality rates, hospital care, ambulatory care, h	iealth insurance,	tropical medicine, Anopheles mosquito, malaria.	<u>.</u>
introduction to single-topic issue on medical car		epidemiology, W H O malaria eradication	
Second 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1973 Sept p 22–33	tropical rain forest, Amazon, developing countrie economic planning, forest management, mi	
hospital care, medical care, in-patient care, out patechnology, medical history	973 Sept p 128–137		
Trassic period, continental drift, plate tectonics, scal		power, the Amazon frontier strangler trees, ecology, evolution	1954 Jan p 78–80
floor spreading, Earth crust, Pangaea, computer	modeling.	economic development, industrialization, trop	F
supercontinents, breakup of Pangaea traced	, , , , , , , , , , , , , , , , , , ,	subsistence economy, urbanization, resource	
197	0 Oct p 30-41 [892]	uneven national development	
tribal cultures, hunting, herding, food gathering, agri	cultural society,	economic development, industrialization, subs	istence economy,
aboriginal culture, India, 'living prehistory' in li	ndia	tropical rain forest, urbanization, resource r	
	1967 Feb p 104-114	uneven national development	1963 Sept p 208–220
tribal politics, industrial technology, Nigeria, econom	nic development,	rain-forest ecosystem, slash burn agriculture, e fungal hyphae	2010gicai tragility,
technology transfer, economic development of f	1963 Sept p 168–184	tropocollagen, collagen, proline, hydroxyproline,	973 Dec p 58-67 [1286]
tnbes, 'national character', cultural anthropology		connective tissue, nature and properties of r	nost abundant protein
trichmosis, in US garbage	1973 Dec p 56		1961 May p 120–130
trickle irrigation, drip irrigation, irrigation, agricultu	ral technology	tropomy osin, ATP, actin, myosin, actinomy osin,	muscle contraction.
1977	Nov p 62-68 [1371]	troponin, calcium, microstructure of muscle	filament and
Trident, arms race, missile submarines, SLBM, MIR		biochemistry of contraction	974 Feb p 58-71 [1290]
	2 June p 15-27 [344]	actin, muscle contraction, muscle fibril, protei	n switch, troponin,
triode, solid state physics, transistor, vacuum tube, e		myosin, calicum in muscle 1	975 Nov p 36–45 [1329]
germanium, diode, dawn of solid-state electron	1948 Sept p 52–55	troponin, ATP, actin, myosin, actinomyosin, mu tropomyosin, calcium, microstructure of mi	scie contraction,
junction transistor, germanium crystal, 'doping'	1952 July p 28-32		1974 Feb p 58–71 [1290]
radio, De Forest, vacuum tube, Marconi, Fleming		actin, muscle contraction, muscle fibril, protei	n switch, tronomyosin
rectification, De Forest's 1906 contributions	1965 Mar p 92-100	myosin, calicum in muscle 1	975 Nov n 36-45 [1329]
triplet state, light-matter interaction, photochemistr	y, flash photolysis,	troposphere, communication technology, radio, i	onosphere, microwave
ultraviolet light, photolysis photoreduction, ph		transmission, ionospheric and tropospheric	scattering
triplets names and DNA	1968 Sept p 158–170	. 1	1957 Jan p 46–51
triplets, amino acids, DNA, protein synthesis, genet molecular biology, RNA, anticodon, ribosome:	s trolets wobble	aerodynamics, air pollution, microclimate, mic	rometeorology, fluid
	6 Oct p 55–62 [1052]	dynamics, meteorology, turbulence, atmosp the ground	
impsacum, corn, genetics, teosinte, pod corn, popco	m, hybrid cells, New	trout, stream ecology, mortality, population con-	1964 Oct p 62–76
World archeology, plant genetic experiment an	id archeological finds	ones and let the big ones gol	1953 May p 81–86
point to pool corn as wild ancester of maise 1	950 July p 20-24 [26]	lamprey, jawless fish, pest control, Great Lake	s. whitefish
trisomy 21, epidemiology, stress, anoxia, pregnancy			1955 Apr n 36 41
etiology of Down's syndrome Down's syndrome, chromosomal anomalies, Klir	1952 Feb p 60-66	trumpet bell, musical instruments, physics of bra	sses, horn flare, trumpet
genetic defect, meiosis, mitosis, gene transloca	tion nondistinction	pipe	1973 July p 24-35
afflictions associated with abnormal chromoso	ome complement	trumpet pipe, musical instruments, physics of bra	
19	61 Nov p 66–76 (150)	trumpeter swan, out of danger	1973 July p 24-35
Triticale, grain, proteins, plant protein, plant hybri	ds, agronomy	truss bridge, wind bracing, skyscrapers, construe	1969 Feb p 46
	1974 Aug n 77_80	Tower, cantilever, steel frame construction,	curtain wall
tritium, cosmic radiation, lithium, nuclear reactor, chemistry	radioisolope, tracer 1954 Apr p 38-40		1074 E.L. 02 105
fusion reactor, nuclear power, magnetic hottle, p	lasma confinement	truth, grammar, logic, philosophy, sentence, met	alogic, mathematical
deutenum, magnetic pumping, stellerator	1958 Oct p 28-35	proof, antimony of the har, proof and truth	1969 June p 63-77

bacteriophage, genetics, reproduction, DNA, pr	otein coat	tertagnet day	
	1953 May p 36-	integrated circuits, metal-oxide semicon	ductors, microelectronics,
tracer isotopes, for mapping the panereas	1056 Tulu - 4	sucon emps	1971 Aug n 49 57
tracheal system, insect physiology, underwater bro	athung ineget hereits	o mode distance, to file gates, the late of	de semiconductors.
i y sasaby, zmoci water ore	1953 Feb p 28-2	BUCIOCICCITONICE commonduate and	nology
traclicostomy, acute respiratory failure, intensive c	are long stood p 28-2).4	1977 Sept p 70-81 [375]
collapse, emphysema, pathogenesis and treatm	arc, rung, arveolar	off the shelf	1952 June p 38
respiratory failure	nent of acute	in hearing aids	1903 Feb p 40
trackous and decree to the	1969 Nov p 23-2	g reliability question	1953 June p 48
tractionia, eye disease, virus disease, vaccination, ej	oidemiology,	new 'surface harmer'	
mmunization	1964 fan n 70 0	6 field effect	1954 Feb p 47
track detectors, streamer chamber, linear accelerate	or, pulse generator.	high-frequency oscillator	1955 July p 52
new particle detector	1967 Oct 5 38 4	A tomograph and the state of th	1955 Oct p 48
tracking station, artificial satellite, orbital motion, s	atellite coop		1957 Sept p 110
exploration, Sputnik, first artificial Earth satel	lita	transistor oscillator, in megacycle spectrum	1952 Aug p 38
Parada opacian, mot artificial Latti Sate		transition boiling, boiling, liquids, heat trans	sfer, nuclear boiling, film
artificial establish arbital masses and	1957 Dec p 37-4	boiling	1954 June p 64-68
artificial satellite, orbital motion, interferometry,	antennae, radio	transmission electron microscope, microscop	ov. scanning electron
astronomy, satellite tracking	1958 Jan p 23-25	microscope, light microscope, three-der	nensional pictures by
trade, obsidian, trace elements, Neolithic archeolog	y, Neolithic trade	\$C3nning electron migracons	1972 Jan p 54-69
pattens deduced from obsidian finds	1968 Mar n 38-46	transmission lungs also a least a leas	luctore 1077 Apr p 84-91
Arabia, irrigation, Near East, frankincense, myrri	h. Biblical archeology	transmitter molecules, nerve conduction, syn	metors 1972 Apr p of 21
cultures of southern Arabia 196	59 Dec p 36-46 [653]		apse, reflex arc, motor
trade deficit, economic development, European econ	some Franchic		impulse, nerve excitation,
Commission for Europe, East-West trade, indu	strial reconstruction	activity at the neural synapse	1965 Jan p 56-66 [1001]
and the same of the state of the state of the same of		transmitters, communication terminals, com	outer technology,
trade wind claude alimete atmosphere and the	1948 July p 9-15		tion, microwave relays,
trade wind clouds, climate, atmospheric circulation,	cumulus clouds,	receivers	1972 Sept p 130-140
ocean-atmosphere interface	1953 Nov p 31-35	transmutation, alchemy, philosopher's stone,	science history
trademarks, information theory, painting, sculpture,	architecture, visual	• • •	1952 Oct p 72-76
communication, communication, language, visi	ial stimulus, visual	transparency, spectroscopy, materials technol	
signals 197	2 Sept p 82-96 [548]	effect, laser, optical properties of materia	
traffic, shantytowns, Calcutta, cities, urbanization, c	aste, housing,	color fusion, color scission, perceptual trans	sparency, physical
poverty, Calcutta, a city of the poor	1965 Sept p 90-102	transparency, optical illusion, visual perc	
queues, mathematics, operations research, comput	er time charing	comparency, optical musicil, visual perc	1974 Apr p 90-98 [559]
applications of queuing theory	1968 Aug p 96-103	transmission assuration accords alone than	
traffic accidents, statistics		transpiration, convection currents, plants, ther	for beet transfer to plant
	1976 Jan p 62	radiation, thermal radiation, energy trans	1965 Dec p 76-84 [1029]
traffic patterns, railway, cities, commutation, mass tr	ansit, automobile,	leaves	
transportation, Bay Area Rapid Transit system	as model for urban	water cycle, evaporation, runoff, agricultura	l system, ocean,
transportation	965 Sept p 162-174	precipitation, biosphere, photosynthesis	1970 Sept p 98-108 [1131]
traffic safety, causes of traffic accidents	1957 Aug p 58	transport mechanisms, plant nutrition plant ro	ots, root pressure, suit
raffic theory, mathematical model, vehicular traffic i	low, urban	minerals	1973 May p 48-38 [12/1]
transport, modeling auto flow patterns	1963 Dec p 35-43	transportation, iron ore, coal reserves, steel mai	kets, changing geography
ranfusion hepatitis, antibodies, hepatitis A, hepatitis	B, viral hepatitis,	of steel	1952 Jan p 44-55
Australian antigen (B), viral structure, viral dise		railway, traffic patterns, cities, commutation,	, mass transit, automobile,
	July p 44-52 [1365]	Bay Area Rapid Transit system as model for	or urban transportation
ranquilizers, psychoactive drugs, chlorpromazine, re-			1965 Sept p 102-175
and an artist of the second of	1955 Oct p 80-86	wheeled vehicles, oxen, carts, wagons, Transc	aucasus, Mesopotamia,
barbiturates, hypnotics, sedatives, anesthesia, phari		origin of wheeled transport 5,000 years ago	1968 July p 82-90
outonatures, respinsion, occurrent, anestitosia, principal	1958 Jan p 60-64	electromagnetic flight, linear induction motor	. linear synchronous
almical indications, national talerance	1957 Jan p 67	motor, 'magneplane' vehicle, magnetic levit	ation, superconductors
clinical indications, patient tolerance	1957 Aug p 62	motor, magneplane volution, magnetic	1973 Oct p 17-25
reduces stress syndrome		barge transport, canals, technology history, in	US
rans-Pacific contact, Olmec, Mexico-Shang, China	1975 May p 44	barge transport, carrais, technology instory, m	1976 July p 116-124
Transcaucasus, transportation, wheeled vehicles, oxen	, carts, wagons,	transportation industry, airport, air traffic contro	l radar
Mesopotamia, origin of wheeled transport 5,000		transportation mausity, airport, an transc contro	1960 Dec p 47-55
	1968 July p 82-90	4 1	elements table of
ranscendental meditation, blood pressure, human phy	siology, autonomic	transuranum elements, periodic table, 'synthetic'	sense of articles.
nervous system, yoga, Zen Buddhism, physiology		elements, stable isotopes, isotopes, first of a	mants (42 Itechnetium).
	eb p 84-90 [1242]	recounting the completion of the table of ele	ml) and the first five
ransdetermination, cell culture, cell differentiation, la	rvae, fruit fly	61[promethium], 85[astatine] and 87[francium	and the macket
1968 Nov	p 110-120 [1127]	transuranic elements (93[neptunium], 94[plus	1950 Apr p 38-47 [242]
ransfer ribonucleic acid, see tRNA		96[curium] and 97[berkelium])	930 Apr p 30-47 taxay
ransferable drug resistance, bacteria, drug resistance, i	mutation, DNA R-	californium, table of elements, einsteinium, ferr	nium, Syntheuc
factor, antibiotics, multiple resistance	1967 Dec p 19-27	elements, mendelevium, radioactive decay, pe	956 Dec p 66-80 [243]
bacteria antibiotics	1966 Feb p 53	1 6 - 1 - 1 - 1 - 1	320 Dec b go-og (52-)
ransformation, see gene transformation, cell transform	nation, energy	uranium fission, nuclear fission, fission products	s, symmetic elements,
transformation and the like		radium isotropy, science history discovery of	1958 Feb p 76-84
cansformation-induced plasticity, materials technology,	steel, strength,		1938 FEO D 10-01
Anne-less:	ADD MON D DOWN ROK	'synthetic' elements element 103 lawrencium hi	ign tiux isotope
ductility ransistor, solid state physics, vacuum tube, electronics,	germanium,	reactor, heavy-ion linear accelerator periodic	1062 3 = 5 68-78
t 1 to a design of colliderate electronics 1	ALD DOD'T D DE DE	بديات دينا بتنايات والمساورين بالمنايات والمار	1963 Apr p 68-78
transictor vacuum tube, electronics, compar	er technology,	alpha decay, isotopes, nuclear stability, beta deca	iy, rauioaciive uccaj,
		'synthetic' elements, periodic table the 'superh	1969 Apr p 56-67
forecast of a revolution in electronic	tion, electronic	beyond 103	1950 Mar p 28
junction aloue ampaners, ampaners, 55	9 June p 118-129	'synthetic' elements element 97	1958 July p 49
Circuitry, noise	ucroelectronics,	'syntheuc' elements, nobelium	1961 June p 84
integrated circuits, electronic components and	965 Nov p 56-70	'synthetic' elements, element 103 trapped radiation, interplanetary space, Mars, Marin	er 4 magnetosphere
silicon chips	miconductors,	micrometeorites, atmosphere, solar wind, cosmi	c fadiation, space
computer memory, integrated circuits, field outcomes, log microelectronics, large-scale integrated circuits, log	ic circuits		1966 May p 62-72
microelectronics, large-scale and grands of	970 Feb p 22-31	exploration	

1959 Mar. p 100-113

Tycho's supernova, supernovae, Chinese starcharts, Kepler's supernova,	ultraviolet radiation, light, photoreactivation, visible light reactivates
'guest stars', the seven observed supernovae 1976 June p 100–107	organisms killed by ultraviolet 1951 May p 22–25
Tyndall spectra, hight scattering, photometry, molecular size, aerosol, hydrosol, measurement 1953 Feb p 69–76	interstellar matter, cosmic dust grains, hydrogen 1955 Nov p 72-80 microscopy, 'flying spot' microscope, ultra-microscopy of living cells
typhoons, hurricanes, radar, meteorology 1954 June p 32–37	1958 May p 38–43
typhus, rickettsiae, chick-embryo culture, Rocky Mountain spotted fever	Sun, balloon astronomy 1959 May p 52-59
1955 Jan p 74–79	telemetry, Sun, astronomy, rocket-borne instrumentation
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis, malaria, filariasis, leishmaniasis, plague, yellow fever, epidemiology,	1959 June p 52-59 Sun, solar eclipse, ionosphere, solar flares, chromosphere, Earth-Sun
animal infection and human disease 1960 May p 161–170	chromosphere-ionosphere interaction 1962 Feb p 50–59
typography, computer-generated characters 1966 Jan p 51	atmospheric tides, ozone, Earth, ultraviolet-radiation hypothesis
tyrosinase, ceruloplasmin, hemocyanin, oxygen transport, enzymes,	1962 Dec p 48–55 DNA, mutation, effects of ultraviolet on weakest links in chain
copper deficiency, cytochrome oxidase, copper biochemistry, Wilson's disease 1968 May p 102–114	1962 Dec p 135–144 [143]
Wilson's disease	Clouds of Magellan, galaxy, stellar evolution 1964 Jan p 32-41
	crystallography, laser, light refraction, nonlinear optics, light
II	interactions, photon 1964 Apr p 38-49 nebulae, Orion nebula, stellar evolution, hydrogen density, dating
O	interstellar bodies 1965 Feb p 90–101
Uganda, animal husbandry, Karimojong, cattle, subsistence herding	DNA replication, mutation rate, radiation damage, thymine dimer,
1969 Feb p 76–89	repair of DNA 1967 Feb p 36-43
Ukraine, glaciation, Ice Age hunters, mammoths, Mousterian assemblages 1974 June p 96-105 [685]	cancer, melanocytes, suntanning, epidermis, skin, vitamin D 1968 July p 38-46
ulcer, stress, psychosomatic illness, 'executive monkey' experiment	artificial satellite, ultraviolet astronomy, Sun, spectroheliograph
1958 Oct p 95-100	1969 June p 92–102
cryotherapy 1962 July p 74	air pollution, rickets, vitamin D, osteogenesis, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207]
ultra-high pressure, artificial diamonds, lithosphere, coesite, borazon, properties of matter under 2 × 10 ⁶ p s 1 1959 Nov p 61–67	ultraviolet sky, rocket operations 1959 Feb p 64
ultra-high speed rotation, ultracentrifuge, angular momentum, magnetic	umbilical cord, placenta, fetus, anatomy and physiology of the umbilical
flotation, molecular weight determination, 90 million r p s	cord 1952 July p 70–74
1961 Apr p 134–147 ultra-high vacuum, spectroscopy, vacuum, oil diffusion pump, sputter-ion	U.N.: United Nations U.N., arms control, role of U.N. in resumed negotiation of arms control
pump, cryogenic pump, mass, vacuum down to 10 12 mm of mercury	1950 Jan p 11–13
1962 Mar p 78-90	U.N. Atomic Energy Commission, disbands 1948 June p 25
ultra-microchemistry, plutonium, embryonic development, cytology, chemistry, isolation of plutonium established a new research	U.N. technical agencies, human nutrition, population, food production, FAO, 'the food problem' 1950 Aug p 11-15
technology 1954 Feb p 76–81	uncertainty principle, measurement, Brownian motion, time, velocity,
ultracentrifugation, density-gradient, separation techniques	Planck's constant, limits of measurement 1950 July p 48-51 [255]
1965 Aug p 70–76	games theory, decision theory, probability, pure strategy, card games illustrate theory 1951 Jan p 44-47
ultracentrifuge, molecular weight, sedimentation, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m	philosophy of science, wave-particle duality 1958 Jan p 51-57 [212]
1951 June p 42–51	gravitation, wave-particle duality, relativity theory, quantum
angular momentum, ultra-high speed rotation, magnetic flotation,	mechanics, space-time continuum, PAM Dirac view of physics
molecular weight determination, 90 million r p s 1961 Apr p 134–147	1963 May p 45-53 'uncontrollable' expenditures, medical care, health statistics, medical-cost
ultradense matter, gravitational collapse, neutron stars, pulsar, stellar	control, national health insurance, US Federal expenditure on
evolution, solid stars, white dwarfs 1971 Feb p 24-31 ultrafast phenomena, Kerr gate, laser mode-locking, molecular motion,	medical care 1971 Apr p 17–25
quantum mechanics, Raman clock, picosecond molecular processes	undecidable questions, antinomy, paradox, mathematical logic, logic, barber paradox, Godel's proof, Grelling's paradox, Epimenides'
1973 June p 42-60	paradox, Zeno's paradox, paradox and foundations of logic
ultrasonic signal, sonar, bat sonar, animal navigation, bat navigation demonstrated in laboratory 1950 Aug p 52-55	Godel's proof metalogic metalogic and 1962 Apr p 84–96
ultrasonic transducer, piezoelectricity, quartz, crystal structure, nature	Godel's proof, metalogic, mathematical logic 1971 Mar p 50-60 algorithms, computer science, Koenigsberg bridges, polynomial-time
and uses of piezoelectricity 1949 Dec p 46–51	problems, exponential-time problems, efficiency of algorithms
ultrasonic waves, sound waves, communication technology, crystal surface waves, electronic equipment, Rayleigh waves, signal	1978 Jan p 96-109 (395)
processing 1972 Oct p 50–68	underground nuclear explosions, atomic explosions, 'Plowshare', Raimer explosion, search for constructive use for nuclear explosions
ultrasonics, interferometry, emulsification, nondestructive testing, sonar	1958 Dec. p. 29–35
l 1954 May p 54-63 kılomegacycle waves, sound waves, acoustic waves at optical	arms control, seismology, atomic bomb test, how to detect
wavelength 1963 June p 60–68	underground weapons tests and distinguish from small earthquakes
medical diagnosis, optics, echo-sounding, computer-assisted imaging,	1962 June p 55-59 earthquakes, atomic test ban, atomic bomb test, seismology, arms
sonar, imaging internal organs by ultrasound 1978 May p 98-112 [1389]	control, detection and discrimination of underground atomic
ultrasound, sonar, bats, predator-prey relationship, moths, auditory	arms control, atomic test ban, seismology, technology for verification
perception, moth sonar detection of bat ultrasound	of underground nuclear test han 1072 Ian n 12 22 (242)
l965 Apr p 94–102 [1009] ultrastrong magnetic fields, high pressure technology, magnetism,	arms control, atomic test ban, 'fireball blackout', EMP effect, strategic
explosive compression, implosion, flux compression	weapons 1972 Nov p 15–23 [342] Earth core, earthquakes, seismic waves, fine structure of Earth's
1965 July p 64-73 ultraviolet astronomy, artificial satellite, ultraviolet radiation, Sun,	interior, core within core 1973 Mar = 24 22 19961
Spectroheliograph 1960 June p 92 102	suspension proposed in U.S. Congress 1072
ultraviolet sky	gravity propulsion, transport by 'nedulum' train 1065 Average
ultraviolet light, light-matter interaction, photochemistry, flash photolysis, photolysis, triplet state, photoreduction, photooxidation,	ander nater archeology, Classical archeology, commerce Roman empire
dye 1968 Sept p 158–170	
, r 150 170	Lake Amautlan, Maya civilization, 500 B C Guatemala

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'truth' drugs, psychoanalysis, psychoactive drugs, psychiatry, emotional
                                                                                    tunnel of Eupalinus, Samos, Greek civilization, Classical archeology,
       illness, clinical use of psychoactive drugs
                                                                                         water supply, feat of Classical engineering
                                                                                                                                       1964 June p 104-112
                                                  1960 Mar p. 145-154 [497]
                                                                                    tunneling, excavating machines, rock borers, earth-moving, surface
  trypanosomiasis, Chaga's disease, public health, 'zoonoses', parasitism,
                                                                                         mining, mining
       malaria, filariasis, leishmaniasis, plague, yellow fever, typhus,
                                                                                                                                         1967 Nov p 74-85
                                                                                      ground water, irrigation, aqueducts, Iran, underground system, 300
       epidemiology, animal infection and human disease
                                                                                        years old, still in use
                                                                                                                                        1968 Apr p 94-10)
                                                        1960 May p 161-170
                                                                                    turbidity currents, ocean floor, submarine canyons, continental shelf,
  trypsin, proteins, peptide bond, zymogen, proteolytic enzymes,
                                                                                        submarine avalanches and topography of ocean floor
       hydrolysis, enzymes, structure and function of protein-digesting
                                                                                                                                         1956 Aug p 36-41
       enzymes
                                                          1964 Dec p 68-79
                                                                                      sandstone, sand dune, granite, weathering, stratigraphy, sand ongin
    catalytic proteins, enzyme action, protein-cutting enzymes, proteolytic
                                                                                        and history from shape of grain
                                                                                                                                        1960 Apr p 94-110
      enzymes, serum proteins, chymotrypsin, elastase
                                                                                   turbine blade design, electric power generation, ship propulsion, steam
                                                   1974 July p 74-88 [1301]
                                                                                        turbines, construction of turbines, applications, history
    enzyme activity at low temperatures
                                                             1966 Dec p 65
                                                                                                                                       1969 Apr p 100-110
 tryptophan, brain function, carbohydrate, neurotransmitters, serotonin,
                                                                                   turbine bucket, heat, materials, temperature limits, ablation, rocket
      human nutrition, feedback
                                                   1974 Feb p 84-91 [1291]
                                                                                        nozzle, high temperatures materials
                                                                                                                                       1954 Sept p 98-106
 tryptophan-niacin relation, neurospora, mutation, natural selection, gene
                                                                                   turbulence, nebulae, galaxies, galactic clusters, hierarchy of turbulence in
      expression, Mendelian inheritance, genetic discase, one gene-one
                                                                                       space
                                                                                                                                        1952 June p 26-30
      enzyme hypothesis, selection for defect
                                                      1948 Sept p 30-39 [1]
                                                                                     boundary layer, airfoil, laminar flow, aerodynamics
 Tschudi engine, automobile engines, Wankel engine, rotary engine
                                                                                                                                        1954 Aug p 72-77
                                                         1969 Feb p 90-99
                                                                                     heat, propulsion, energy transformation, aerothermodynamics, laminar
 tsunamis, earthquakes, 'tidal' waves
                                                         1954 Aug p 60-64
                                                                                       flow, high temperatures propulsion
                                                                                                                                     1954 Sept p 120-131
    seiches, ocean waves, surf, breakers, generation and propagation of
                                                                                     fish, swimming, laminar flow, purpoises, how fishes and sea going
      ocean waves
                                                   1959 Aug p 74-84 [828]
                                                                                                                                 1957 Aug p 48-54 [1113]
                                                                                       mammals swim
 tsuzumi crystals, snow crystals, hexagonal habit, cloud physics, bullet
                                                                                     aerodynamics, air pollution, microclimate, micrometeorology, fluid
      clusters, variations on a theme
                                                       1973 Jan p 100-107
                                                                                       dynamics, troposphere, meteorology, atmospheric phenomena near
 tubercle bacillus, tuberculosis, mortality rates, economic development,
                                                                                                                                        1964 Oct p 62-76
                                                                                       the ground
      public health, science history, popularization of well-being, not
                                                                                    fluidization, petroleum cracking, particle bed, gas stream, food
      therapy, ends 'white plague'
                                                         1949 Oct p 30-41
                                                                                                                                       1968 July p 94-104
                                                                                       processing
   tuberculosis, bacteriology, biology of the germ
                                                     1955 June p 102-110
                                                                                    eddies, negative viscosity, wind, nonuniform flows, rotating systems,
 tuberculosis, tubercle bacillus, mortality rates, economic development,
                                                                                                                                       1970 July p 72-80
                                                                                      VISCOSITY
      public health, science history, popularization of well-being, not
                                                                                 turgor movement, plant movement, nastic movement, geotropism,
                                                                                                                                     1955 Feb p 100-106
      therapy, ends 'white plague'
                                                         1949 Oct p 30-41
                                                                                      phototropism, touch orientation
   tubercle bacillus, bacteriology, biology of the germ
                                                                                 Turing machine, automata theory, von Neumann machine, brain
                                                                                                                                       1955 Apr p 58-67
                                                      1955 June p 102-110
                                                                                      circuitry, computer design
                                                                                    feedback, computer science, von Neumann machine, automata theory,
   isomazid, isotopes, streptomycin, para-aminosalicylic acid,
      pharmacology, tracing action of TB drugs
                                                                                      self-reproducing machine, 'artificial living plants'
                                                      1956 Nov p 135-144
                                                                                                                                     1956 Oct p 118-126
   successful chemotherapy
                                                            1952 Apr p 39
                                                                                    biological sciences, mathematics, self-reproducing machine, nerve
   ehemotherapy established
                                                            1952 May p 40
                                                           1954 Sept p 80
                                                                                      impulse, predation, automata theory, mathematics in biology
   drugs, facilitate surgery
                                                                                                                                   1964 Sept p 148-164
   BCG vaccine
                                                            1956 May p 60
                                                                                   games theory, logic, computer theory, algorithms, problem solving
tuberculosis control, W H O in China
                                                           1948 Nov p 25
                                                                                                                                    1965 Nov p 98-106
tuberculosis test, no false negatives
                                                            1950 Apr p 36
                                                                                 Turkey, metal artifacts, metallurgy, copper, Neolithic archeology, village-
tuberculosis vaccine, funds for BCG
                                                           1948 June p 24
                                                                                     farming communities, man's first use of metals 7,500 B C
tubulin, cell motility, wound healing, cell tracks, embryonic development,
                                                                                                                                     1970 Mar p 50-56
     mitotic apparatus, cell motion made visible to naked eye
                                                                                turkeys, animal behavior, courtship display, pecking order, sexual
                                                 1978 Apr p 68-76 [1386]
                                                                                     behavior, lek behavior, Welder Wildlife Refuge
'tulipomania', horticulture, virology, benign virus infection
                                                                                                                                   1971 June p 112-118
                                                     1960 Aug p 138-144
                                                                                                                                        1977 Aug p 58
                                                                                Turkish tallies, writing precursors
tumor, cancer, multipotential cells, teratoma, gene expression, plant cell,
                                                                                Turner's syndrome, Barr body, sex differences, chromosome, genetic
                                                1965 Nov p 75-83 [1024]
     inhibitions
                                                                                    mosaic, cytology, Klinefelter's syndrome, chromosomal anomalies
  medical diagnosis, thermography, arthritis, skin temperature,
                                                                                                                                1963 July p 54-62 [161]
                                                                                    sex differences in tissue cells
                                                      1967 Feb p 94-102
     circulatory disorders
                                                                               turtles, animal migration, animal navigation, telemetry, sexual behavior,
tumor inhibition, angiogenesis, avascular tumors, cancer, tumor
                                                                                    nesting, Cheloma mydas, green turtle, 1,400-mile journey
     vascularization, tumor angiogenesis factor (TAF)
                                                                                                                              1965 May p 78-86 [1010]
                                                1976 May p 58-73 [1339]
                                                                               'twiddling', bacteria, bacterial moulity, flagella, rotation of flagella
tumor-specific antigens, antibodies, cancer, cell-surface antigens, cancer
                                                                                                                                    1975 Aug p 36-44
    immunology, immunopotentiators, immune response, leukemia,
                                                                               twins, identical twins, fraternal twins, ovulation estrin physiology of
                                                1977 May p 62-79 [1358]
     transplantation anugens
                                                                                                                                    1951 Jan p 48-51
tumor tissue, tissue culture, 'nude' mice in tumor tissue culture
                                                                                   twinning
                                                                                 intelligence, race, whites, IQ, heredity, American Negro, heredity
                                                          1978 May p 88
                                                                                   population genetics, science policy, social psychology, environment,
tumor vascularization, angiogenesis, avascular tumors, cancer, tumor
                                                                                                                             1970 Oct p 19-29 [1199]
                                                                                   racial discrimination
    inhibition, tumor angiogenesis factor (TAF)
                                                                              two-phase materials, crystal structure, metals, whiskers, fiber-reinforced
                                                1976 May p 58-73 [1339]
                                                                                                                                   1965 Feb p 28-37
                                                                                   dislocations, matrix, composite materials
tumor-virus antigen, adenoviruses, cancer virus, SV40 virus, DNA virus,
                                                                                composite materials, materials technology, whiskers, fiber glass fiber-
    DNA recombination, gene transformation, virus etiology of cancer
                                                                                                                                1967 Sepi p 160-176
                                                                                  reinforced composites, matrix, eutectics
                                                      1966 Mar p 34-41
                                                                              two-way channels, communication technology, network hierarchies,
tuna, heat exchange, mackerel shark, rete mirabile, thermoregulation,
                                                                                  communication, computer-assisted instruction, information retrieval
    comparative physiology, warm-bodied fishes
                                                                                  National Academy of Engineering study, 'Communications
                                               1973 Feb p 36-44 [1266]
                                                                                  Technology for Urban Improvement', 'wired city' concept
                                                      1969 Feb p 30-40
                                                                                                                               1972 Sept p 142-150
tunable laser, organic lasers
tundra, soil structure, chernozems, podzols, latozols, afluvial soils,
                                                                              Tycho Brahe, observatory, astronomy, scientific instrumentation,
    agronomy, ecology of soil, soil erosion, the soils of the world and
                                                                                  Sijerneborg, science history, 16th century fiven observatory
                                                      1950 July p 30-39
                                                                                                                               1961 Fcb p 118-128
    their management
tunnel junction, electric current, Josephson effects, superconductivity,
                                                                               Copernicus, planetary motion models, solar system, science history,
    microwave emission, quantum mechanics, confirmation and
                                                                                  Tycho's noies in de Revolutionibus
                                                                                                                                1973 Dec p 86-101
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1966 May p 30-39

applications of Josephson effects

pwelling, Peru Current, anchovy, guano, seagulls, El N	Niño 1954 Mar p 66–71	slums, cities, housing, relocation, eminent doma US experience with Federal subsidy of urba	un, urban plannıng, n renewal
Earth, ocean circulation, gyres, wind, the circulation	of the oceans		1965 Sept p 194–204
food supply, fisheries, marine farming, sea-water nut	955 Sept p 96-104 trients, fishponds	urban revolution, social evolution, social behavior,	, human evolution,
anchovy crisis, El Niño, fishing, Peru Current, Peruv	Dec p 14-21 [1205] Man anchovy	urban riots, ghetto, racial discrimination, unemplo	O Sept p 153–168 [606] syment, public opinion,
1973 Л	une p 22–29 [1273] 1953 Jan p 26–28	social class, American Negro, 'riffraff theory' opportunity' theory	versus blocked- 968 Aug p 15–21 [638]
Jr-Nammu, Sumer, law code, hieroglyphs	1969 May p 56	'pre-political' demonstrations in U S	1968 June p 42
iranium, Oak Ridge separation plant	1976 June p 48	urban sociology, shantytowns, squatters, land use,	
supplies assessed	1968 Dec p 50	Lima, Peru	1967 Oct p 21–29
ranium 233, from thorium		urban transport, mathematical model, vehicular tr	
uranium 235, nuclear fission, heavy nuclei, liquid-drop	1065 Ang n 49_59	theory, modeling auto flow patterns	1963 Dec p 35-43
shell model, fission fragments	1965 Aug p 49–59 1967 June p 50	air pollution, smog, automobile emissions, ozon	
gas-centrifuge research restricted separation by centrifuge, European plants	1960 May p. 52		1964 Jan p 24-31 [618]
uranium cycle, fission reactor, breeder reactor, nuclear	nower energy	cities, computer modeling, personal-transit syste	
economics, thorium cycle, breeder reactor, nuclear		mass transit	1969 July p 19-27
conomics, monum cycle, breeder reactor as test	1960 Jan p 82-94	Northeast Corridor ideas	1965 Apr p 56
breeder reactor, nuclear power, fast neutron reactor		urbanization, family size, US census, US popula	ition, reapportionment,
liquid-metal reactor, fission reactor, energy dema	nd	US census of 1950	1951 Apr p 15-17
1970	Nov p 13-21 [339]	US census, age-sex distribution, baby boom, fa	
uranium deposits, fission products, natural reactor, nu	clear fission, Oklo	suburbs, U S census at 1960	1961 July p 39–45
phenomenon, Precambrian reactor	1976 July p 36-47	economic development, demographic transition	
uranium enrichment, isotope separation, laser-excitation	on technique, light	population control, family planning, econom	
absorption, quantum mechanics 1977	Feb p 86-98 [354]		963 Sept p 62-71 [645]
gas-centrifuge process	1973 Aug p 43	economic development, industrialization, tropic	•
gas-centrifuge enrichment	1977 Aug p 52	subsistence economy, tropical rain forest, res	
uranium fission, nuclear fission, fission products, 'syn	thetic' elements,		1963 Sept p 208–220
radium, isotropy, transuranium elements, science	history, discovery	New World archeology, agricultural revolution,	
of fission	1958 Feb p 76–84	corn, New World agricultural revolution 1 Industrial Revolution, cities, population growth	
breeder reactor, fission reactor, energy demand, plu			965 Sept p 40–53 [659]
generation' breeder reactors	1967 May p 25–33	cities, Industrial Revolution, agricultural revolu	
fission-track dating, geochronology, glass age, mete age, pottery age, radioactive decay	976 Dec p 114–122	origin and evolution of cities	1965 Sept p 54-63
O , I ,	1954 Oct p 36-39	shantytowns, Calcutta, cities, caste, housing, po	
'atoms for peace', nuclear power, nuclear fuel, fuel-		a city of the poor	1965 Sept p 90-102
Geneva chemistry	1955 Oct p 34-37	of world population	1972 Oct p 47
chemical analysis, prospecting, chemical prospecti	-	urinary calculi, crystal structure, lithiasis, kidney o	alculı, X-ray
3 /1 1 0/	1957 July p 41–47	diffraction, bladder stones, gallstones	1968 Dec p 104-111
ın U S S R.	1949 Mar p 24	urine, kıdney, counter-current exchange, nephron	, glomerulus, osmosis,
new finds in France and Canada	1949 Apr p 25	anatomy and physiology of the kidney	1953 Jan p 40–48 [37]
in the Rockies	1950 Oct p 24	diabetes insipidus, thirst, salt excretion, electrol	yte balance,
processing plants	1951 May p 34 1954 Mar p 45	thermoregulation, kidney, physiological psyc theory of thirst, Cannon 'dry mouth' theory	nology, osmoreceptor
Belgian Congo shortage foreseen	1974 Jan p 50	U.S.: United States of America	1936 Jan p /0-/6
acceptable hazards	1976 June p 48	US agriculture, agricultural economics, food and	agriculture food
uranium-recovery plant, radiation-accident death	1965 June p 58	processing, 'agribusiness'	1976 Sept p 106-123
uranium resources, nuclear energy	1951 May p 17-21	U.S. Army, loyalty and security, McCarthy, Fort	Monmouth, Scientists'
Uranus, Neptune, outer planets, Pluto, Saturn, solar	system	Committee on Loyalty and Security, report o	n Signal Corps
I	975 Sept p 130-140	Engineering Laboratory	1954 June n 29-31
planetary rings	1977 Aug p 57	US. census, urbanization, family size, US popul	ation, reapportionment,
Uranus' fifth moon, 'Mıranda', as ın Shakespeare's T	empest	US census of 1950	1951 Apr p 15-17
Hrarty Debleral and a land a Admin Alexander	1949 Oct p 29	age-sex distribution, fertility, human resources,	
Urartu, Biblical archeology, Mount Ararat, Altintep Noah's landing-place	1967 Mar p 38–46	population of U S	1951 Sept p 28-35
urban archeology, Roman Britain, Winchester	1974 May p 32–43	urbanization, age-sex distribution, baby boom, suburbs, US census at 1960	
urban density, cities, form of cities	1954 Apr p 54-63	education, US population, labor force, age-sex	1961 July p 39–45
urban monkeys, rhesus monkeys, social behavior, lea	rning, urban and	demographics, gross national product, more	from the H.S. census of
forest monkeys in India 1969	July p 108-115 [523]	1960	1962 Oct p. 30-37
urban planning, housing, central city, suburbs, cities,	, metropolitan area,	US population, population redistribution, hun	aan migration.
conurbation, evolution of the metropolis	1965 Sept p 64-74	suburbanization, US census of 1970	1971 July p 1725
land use, Stockholm, cities, land ownership, urbar	renewal, Stockholm	population gain for suburbs	1970 Oct p. 52
as a planned city Ciudad Guyana, cities, land ownership, economic	1965 Sept p 106-115	U.S. economy, economics, input-output analysis,	interindustry
	1965 Sept p 122-132	transactions, 1958 US Department of Comm	nerce input-output table
housing, land use, population density, shantytown	is taxation.	energy cycle industrial society, news-	965 Apr p 25-35 [624]
government regulation, cities, control of land u	se	energy cycle, industrial society, power, ecosyste protection	m, environmental
	1965 Sept p 150-160	employment, pluralistic economy, public sector	1 Sept p 134-144 [667]
urban renewal, slums, cities, housing, relocation	eminent domain, U.S.	sector, productivity, not-for-profit sector	1076 Dag - 25 20
experience with Federal subsidy of urban renev	kal	employment levels, labor force, mannou er police	CV. Women in Jahor
central city, cities, highway engineering, mass trai	1965 Sept p 194-204	rorce, job creation vs. ton duality	977 Nov p 43–51 [701]
diversity, paths	1065 Cont = 200, 210	U.S. metals industries, import dependent	1953 Apr p 44
urban renewal, land use, urban planning Stockholm	1965 Sept. p 209-219	U.S. politics, scientists for Johnson	10110
ownership, Stockholm as a planned city	1965 Sept p 106-115	U.S. population, urbanization, family size, U S ce. U S census of 1950	nsus, reapportionment.
-		0 0 00m3u3 01 19JU	1951 Apr p 15-17

shinhuilding Daniel at the man			
shipbuilding, Byzantinc shipping, Rhodian se century	ca law, shipwreck of 17th	cosmology, Olber's paradox, world lines, c	nominature of one as 1.1%
contary	1971 Aug. p. 22-3	galactic evolution, evolution	urvature of space, red shift,
Greek civilization, temple of Apollo aqualungs for shiprwrecks	1974 Oct. p. 110-11	U .	t, element tormation, genesis
archaeologocial looting	1961 Scpt. p. 9	cosmology, red shift, universe, spectroscop	1954 Mar. p. 54-63
underwater breathing in the interview	1971 Apr. p. 5	3 velocity, galactic clusters, observational	y, galaxies, iecession
underwater breathing, insect physiology, traches	al system, insect breathing	4	1956 Sept. p. 170-182 [240]
	1052 Feb - 20 2	cosmology, cosmic background radiation,	hig hand theory low many
underwater slielters, continental shelf exploitation	On caturation divina	radiowaves, isotropy, primeval fireball, h	olg bang incory, low-chergy
decompression, diving, oceanographic expl		Incorv and cosmic background radiation	1967 June p. 28-37
1	1966 Mar. p. 24-33 [1036		1971 May p. 54-69
unemployment, ghetto, racial discrimination, ur	ban riots, public opinion,	cosmic background radiation, evolutionary	universe radio calaxies
social class, American Negro, 'riffraff theor	y' versus 'blocked-	"big bang' theory	1974 Aug. p. 26-33
opportunity' theory	1968 Aug. p. 15-21 [638]	cosmology, 'big bang' theory, 'closed' unive	rse 'onen' universe
suicide, suicides among the jobless	1963 July n 69		versae density
U.N.E.S.C.O.: United Nations Educational, Science	entific and Cultural	and an analysis, and an analysis, an	1976 Mar. p. 62-79
Organization		yardsticks revised again	1955 Jan. p. 44
U.N.E.S.C.O., new field offices	1948 May p. 33	cosmology, electrostatic repulsion explanation	on of expansion
budget reduction	1953 Jan. p. 30	, , , , , , , , , , , , , , , , , , ,	1959 Oct. p. 84
\$1.3 million for science	1953 Apr. p. 45		1975 Dec. p. 50
Evans director	1953 Sept. p. 73		d 1953 Mar, p. 48
U.S.S.R. returns	1954 June p. 50	university education, Nobel prizes, education, s	sociology, scientific careers,
'unexpected hanging', not a true paradox	1953 Apr. p. 54	sociology of the Nobel prizes	1967 Nov. p. 25-33
ungulates, evolution, horn, antler, osteogenesis, b	one, keratin, differences	influence of high school size on university ed	ucation 1961 May p. 82
between horns and antlers 196	9 Apr. p. 114-122 [1139]	university research, N.S.F., science funding, fur	ndamental research,
unicorn, narwhal, how unicorn acquired narwhal		science education	1948 June p. 7-11
	1951 Mar. p. 42-43	science funding, Office of Naval Research	1949 Feb. p. 11-15
unified field theory, gravity, electromagnetism, no	iclear forces, 'On the	A.E.C., atomic weapons, nuclear power, scien	nce funding, military
Generalized Theory of Gravitation', a person		secrecy	1949 July p. 30-43
Einstein	1950 Apr. p. 13-17	review of U.S. Federal funding by National S	cience Foundation
new Einstein publication	1950 Jan. p. 26		1958 May p. 52
Hlavaty's helping hand	1953 Sept. p. 78	pseudoscience, ESP, kirlian photography, astr	ology at Iowa State
see also: field theory	3.0		1978 Apr. p. 78
Union of the Soviet Socialist Republics, see: U.S.S		university science, N.S.F., science funding, scien	1950 July p. 11-15
'unique stimulus' problem, canary, learning	1955 June p. 72-79	the new institution upon its legislation	1950 July p. 11-15
United Nations, see: U.N.		fundamental research, curiosity, science fundi	ng, mission-oriented
United Nations Educational, Scientific, and Cultur U.N.E.S.C.O.	a Organization, see:	funding agencies, N.S.F., introduction to a s	1953 Sept. p. 47-51
United Nations Relief and Rehabilitation Administ	tration and LINIDDA	fundamental questions in science	
United States of America, see: U.S.	ration, see: UNRRA	N.S.F., science funding, fundamental research N.S.F., science funding, science policy, U.S. Fe	deral funding: basic and
universal constant, speed of light, measurement	1955 Aug. p. 62-67	applied science	1957 Nov. p. 45-49
universe, astronomy, philosophy of science, galact		science funding, science policy, freedom of science	nce creativity.
motion, solar system, cosmology, introductio		conditions favoring advance in science	1958 Sept. p. 170-178
on the universe	1956 Sept. p. 72-81	N.S.F., 'mission-oriented' funding agencies, sci-	ence funding,
thermonuclear reaction, element abundance, ste		institutional grants, science policy, fundamer	ital research, project
'synthetic' elements, particle accelerator, expe		grants, problems in government support of so	nence in file U.S.
2), [1956 Sept. p. 82-91		1965 July P. 17-20
galaxy, stellar evolution, stellar populations, spi		N.S.F., peer review, research funding, science pe	olicy, sociology Of
distribution of 'population I' and 'II' stars in	local Galaxy	science l	9// Oct. D. 34-41 (0)01
	1956 Sept. p. 92-99	work-study graduate programs	1956 Sept. p. 118 1956 Nov. p. 62
cosmology, universe evolution, 'big bang' theory	, space curvature,	U.S. science scholarships	1957 July p. 64
according to Gamow	1956 Sept. p. 136-154	funding 70 percent Federal	1958 Jan. p. 44
cosmology, energy transformation, steady-state		U.S. Federal budget 1959	1958 May p. 56
Hoyle	1956 Sept. p. 157-166	average stipend: \$6,120 average stipend: \$ 6,120	1958 May p. 56
cosmology, red shift, universe expansion, spectro	oscopy, galaxies,	the dominant academic department by 1970	1960 Nov. p. 90
recession velocity, galactic clusters, observatio	Sept. p. 170–182 [240]	UNRRA: United Nations Relief and Rehabilitation	n Administration
galactic clusters, probability, gravitation, cosmol	ony Monte Carlo	UNRRA milk program, powder instead of pasteuriz	ation .
method, distribution of galaxies as test of cosn	nologies		1948 (NOV. p. 22
memod, distribution of galaxies as test of costs	1956 Sept. p. 187-200	untouchables, class discrimination, Harijans, caste,	Hinduism, India, civil
Cassiopeia, radio galaxies, Cygnus A, red shift, C	rab Nebula, colliding	rights	1903 Dat. p. 15
galaxies	1956 Sept. p. 204-220	upper atmosphere, stratosphere, ionosphere, radio c	ommunication, 1949 Jan. p. 30–39
galactic evolution, irregular galaxies, galactic clus	sters, irregular galaxies	aurora, noctilucent clouds, meteorology	rydy Jan. p. 50
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uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle at delivery progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] **Poparticles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vacctination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, varcination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1976 July p 25–29 (1965 July p 20–27) (1965 July p 25–29 (1966 July p 30–37) (1965 Jul
uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] with the properties of particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles in 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemology, immunization 1964 Jan p 1978 Jan p 12–117 medical history, smallpox immunization, variolation, vaccination before Jenner 1976 Jan p 112–117 medical history, smallpox immunization, with the problems of poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis, gammaglobulin, epidemiology, antibody persistence congenital rubella, rubella 1965 July p 30–37 congenital rubella, rubella 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director vaccine sought, N S F, rubella, measles vaccine, Haworth director vaccina virus, adenoviruses, variology, X-ray diffraction, polomyelitis, and enoviruses, variology, X-ray diffraction, polomyelitis, gammaglobulin, epidemiology and polomyelitis, gammaglobulin, epidemiology and polomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation polomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation, vaccination, vaccination, vaccination before Jenner 1976 Jan p 112–117 vaccine sought, N S F, rubella, material programagle properties, fluer from the fire promotion, companies, fluurin, silication, polomyelitis, gammaglobulin, epidemiology, immunity, infection, germ-free animals 1952 May p 34–40 and properties fluery, in
v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles of particles information, eye disease, trachoma, virus disease, epidemiology, immunization composit, smallpox eradication, W H O campaign medical history, smallpox eradication, W H O campaign poliomyelitis, gammaglobulin, epidemiology, immunization poliomyelitis, gammaglobulin, epidemiology, immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation in 1955 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poli
v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles vaccination, eye disease, trachoma, virus disease, epidemiology, immunization cowpox, medical history, smallpox immunization, variolation, vaccination before Jenner il976 Jan p 1976 Jan p 1978 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis, grammaglobulin, epidemiology, immunity, blood fractionation, vaccination before Jenner 1976 Jan p 1961 Apr p 30-33 variable stars, photocell, light amplification, photomuluplier, stellar remerature, interstellar matter stellar composition, organ pipe analogy, stellar brightness 1975 June p 66-75 interstellar matter stellar composition, organ pipe analogy, stellar brightness 1976 June p 66-75 variable stars, photocell, light amplification, photomuluplier, stellar temperature, interstellar matter stellar composition, organ pipe analogy, stellar brightness 1975 June p 66-75 variable stars, photocell, light amplification, photomuluplier, stellar ormosition, organ pipe analogy, stellar brightness 1975 June p 66-75 variable stars, photocell, light amplification, photomuluplier, stellar remerature, interstellar matter 1961 Apr p 8-10-11-117 vascular surgery ariery prostheses, cardiovascular disease damage 1962 Oct p 948 Apr p 940 Apr p 951 Apr p 953 Apr p 92-27 variolation, cowpox,
v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles influence influence influence of particles influence i
v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles in 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization cowpox, medical history, smallpox immunization, variolation, vocomation before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, difficulty in securing flu immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital rubella, rubella chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director vaccina virus, adenoviruses, virology, X-ray diffraction, polomoreluse vaccina virus, adenoviruses, virology, X-ray diffraction, polomoreluse vaccine virus, adenoviruses, virology, X-ray diffraction, polomoreluse vaccines on the virus, adenoviruses, virology, X-ray diffraction, polomoreluse virus, adenoviruses, virology, X-ray diffraction, polomoreluse virus, adenoviruses, virology, X-ray diffraction, polomoreluse virus, epidemiology, increase virus, policine virus, p
v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles vaccination, eye disease, trachoma, virus disease, epidemiology, immunization independent of particles vaccination, eye disease, trachoma, virus disease, epidemiology, immunization independent of particles vaccination, eye disease, trachoma, virus disease, epidemiology, immunization independent of particles vaccination, eye disease, trachoma, virus disease, epidemiology, immunization, variolation, variolation, vaccination, before Jenner interstellar matter interstellar matter j952 Mar p 56-59 variable stars, photocell, light aniplification, photomultiplier, stellar temperature, interstellar matter j952 Mar p 56-59 variable stars, photocell, light aniplification, photomultiplier, stellar temperature, interstellar matter j952 Mar p 56-59 variable stars, photocell, light aniplification, photomultiplier, stellar temperature, interstellar matter j952 Mar p 56-59 variable stars, photocell, light aniplification, photomultiplier, stellar composition, organ pipe analogy, stellar brightness j955 Mar p 12-117 vaccination' before Jenner j967 Aug p 30 variable stars, photocell, light aniplification, photomultiplier, stellar composition, organ pipe analogy, stellar brightness j975 June p 66-75 interstellar matter j952 Mar p 56-59 variable stars, photocell, light aniplification, photomultiplier, stellar composition, organ pipe analogy, stellar brightness j967 Aug p 30 variable stars, photocell, light aniplification, photomultiplier, stellar composition, organ pipe analogy, stellar brightness j975 June p 66-75 interstellar matter j975 June p 66-75 variable stars, photocell, light aniplification, photomultiplier, stellar composition, organ pipe analogy, stellar brightness j975 June p 66-75 variable stars, photocell, light aniplification, photomultiplier, stellar composition, organ pipe analogy, stellar brightness j975 June p 66-75 variable stars, photocell, light aniplification, photomultiplier, stellar composition, organ pipe analogy, stell
v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis virus, epidemiology, antibody persistence congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1965 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director actions virus, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccination, eye disease, trachoma, virus disease, epidemiology, immunization, proposition, organ pipe analogy, stellar brightness 1975 June p 66–75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1966 July p 30 vaccination, 'vaccination,' vaccination, 'vaccination, vaccination, vaccination, vaccination, vaccination, vaccination, vaccination, overpos, medical history, smallpox immunization vaccination, vaccination, organ pipe analogy, stellar brightness 1975 June p 66–75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1966 July p 30 vaccination, vaccin
of particles 1952 Jan p vaccination, eye disease, trachoma, virus disease, epidemiology, immunization cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 1976 J
immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutnation, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, influenza virus, poliomyelitis varius, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyelitis, specifical discovery vaccination, vaccination, infrated radiation, lithium, youngest stars? variolation, cowpox, medical history, smallpox immunization vaccination, vaccin
cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella 1965 Might p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyelus vaccination vaccination, infrared radiation, lithium, youngest stars? 1967 Aug p 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr p 88–104 cardiovascular surgery surgical stapler stapling technic for joining vessels vasconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir vault, Byzantine dome, building construction vaulting technics vault, Byzantine dome, building construction vaulting technics vault, Byzantine dome, building construction vaulting technics (1963 May p 74 variolation, composition, 'vaccination', vaccination', vacci
'vaccination' before Jenner medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis virus, epidemiology, antibody persistence 1953 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyelius vaccination, 'vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 vaccination, vaccination, 'vaccination', vaccination', vaccination', vaccination', vaccination', vaccination', vaccination', vaccination', before Jenner 1976 Jan p 112–117 vaccination, vaccination, 'vaccination', before Jenner 1976 Jan p 112–117 vaccination, vaccination', vaccination', before Jenner 1961 Jan p 112–117 variation 1962 Oct p 48–56 vaccionstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservor 1968 Jan p 86–96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque valult, Byzantine dome, buildi
vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis virus, epidemiology, antibody persistence poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30–37 congenital rubella, rubella 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccination, (vaccination) before Jenner 1976 Jan p 112–111 vaccination, (vaccination) vaccination, (vaccination) before Jenner 1976 Jan p 112–111 vaccination, (vaccination) before Jenner disease atherosclerosis, repair of vascular surgery, artery prostheses, cardiovascular disease damage atherosclerosis, repair of vascular surgery surgical stapler stapling technic for joining 1962 Oct p 48–56 vasoconstriction, hypertension, venous system plethysmography, venous actively dilating and constricting blood reservoir 1968 Jan p 86–96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics vault, Byz
vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis virus, epidemiology, antibody persistence poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbal medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, adenoviruses, virology, X-ray diffraction, poliomyelitis to place with the production of the p
hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 1961 Apr p 88–104 1961 Apr p 80–104 1961 Apr p 88–104 1961 Apr p 80–104 1961 Apr
poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis virus, epidemiology, antibody persistence poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42-44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30-37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102-112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccine virus, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccine virus, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccine virus, adenoviruses, virology, virus disease, teratogenesis, pregnancy, actively dilating and constricting blood reservoir 1968 Jan p 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics v
fractionation poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42-44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30-37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102-112 vaccine sought, N S F, rubella, measles vaccine, Haworth director vaccine sought, N S F, rubella, measles vaccine, Haworth director vaccine sought, N S F, rubella, measles vaccine, Haworth place in the street of the street o
congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyelius vaccina virus
congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30-37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102-112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyelitus vaccina virus, adenoviruses, virology, X-ray diffraction, pol
congenital rubella, rubella (1908 3dly p 30 struction) chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine (1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director (1963 May p 74 vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyeluts vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyeluts (1963 Dec p 35–43 veins, hypertension, venous system, plethysmography, vasoconstriction)
chemotherapy, drug effects, liver function, pharmacology, notations, and the state of the state
vaccina virus, adenoviruses, virology, X-ray diffraction, poliomyelius vaccina virus, adenoviruses, virology, x-ray diffraction, adenoviruses, ade
vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis veins, hypertension, venous system, plethysmography, vasoconstriction
vaccinia virus, adenoviruses, virology, A-ray diffusions, tobacco mosaic veins, hypertension, venous system, plethysmography, vasoconstriction
virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, bacteriophage, structure of viruses 1963 Jan p 48-56 actively dilating and constricting blood reservoir 1968 Jan p 86-96 [1093]
vacuum, spectroscopy, ultra-high vacuum, oi ultrason pump down to 10 mm of mercury
pump, cryogenic pump, mass, vacuum down to 10 kmm of metetry 1962 Mar p 78–90 Planck's constant, limits of measurement 1950 July p 48–51 [255] Planck's constant, limits of measurement 1950 July p 48–51 [255] Planck's constant, limits of measurement 1950 July p 48–51 [255] Planck's constant, limits of measurement 1950 July p 48–51 [255]
vacuum distillation, essenual oils, oleoresins, steam distillation, flavors, 1953 Aug. p 70-74 spectroscopy flame chemistry, chemical kinches, flash tube Tampet, de ft, fundinostry spectroscopy 1953 Viay p 29 35

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'Ames room', personality, aniseikonic lenses, anxiety, 'Honi'
eye, retinal pigments, color perception, cone cells, trichromaticity
                                           1962 Nov p 120-132 [139]
                                                                                 phenomenon, emotional relationships condition perception
  implies three cone pigments
                                                                                                                                    1959 Apr p 56-60
eye, visual cortex, retina, optic nerve, organization of sight into vision
                                                                               color vision, 'long' and 'short' wavelengths in color perception
                                              1963 Nov p 54-62 [168]
                                                                                                                              1959 May p 84-99 [223]
nervous system, reflex arc, motor neuron, interneuron, animal
                                                                               'visual cliff', depth perception, infant, comparative psychology, genesis
  behavior, small neuron systems as models for study
                                             1967 May p 44-52 [1073]
                                                                                 of depth perception
                                                                                                                                    1960 Apr p 64-71
learning, sensory perception, touch, visual perception dominates touch
                                                                               visual scanning, retina, visual cortex, how we see straight lines
                                             1967 May p 96-104 [507]
                                                                                                                                 1960 June p 121-129
                                                                               depth perception, vision, learning, innate and learned response to
visual pigments, opsin, rhodopsin, isomerism, vitamin A
                                                                                                                                 1961 Mar p 138-148
                                             1967 June p 64-76 [1075]
                                                                                 visual cues
                                                                               form perception, learning, perception, innate or learned form
eye movement, saccades, visual attention, fovea, human eye, visual
  fixation, experiments with eye-marker camera
                                                                                 perception
                                                                                                                              1961 May p 66-72 [459]
                                                                               retina, vision, learning, Gestalt psychology, stabilized retinal images,
                                              1968 Aug p 88-95 [516]
                                                                                  evidence for perceptual theories
                                                                                                                              1961 June p 72-78 [466]
retina, photographic emulsion, vidicon, television camera,
   photochemistry, light, image detection, electronic camera
                                                                               learning, Fechner's law, psychophysics, Skinner box, behavioral
                                                 1968 Sept p 110-117
                                                                                  psychology, conditioned behavior, pigeon perception
                                                                                                                            1961 July p 113-122 [458]
 photosynthesis, photoperiodicity, visual pigments, phytochrome,
                                                                               moon illusion, apparent distance theory, Gestalt psychology,
   chlorophyll, retina cells, plant growth, light and living matter
                                                 1968 Sept p 174-186
                                                                                  explanation of a familiar illusion
                                                                                                                            1962 July p 120-130 [462]
 light, image processing, visual perception, imagery, eye and brain in
                                                                               color vision, constancy effect, neutral colors
                                           1968 Sept p 204-214 [519]
                                                                                                                            1963 Jan p 107-116 [474]
   visual perception
                                                                               visual systems, scallop, surf clam, inhibitory impulse, shadow-sensitive
 eidetic images, child psychology, perceptual memory, 'photographic'
                                              1969 Apr p 36-44 [522]
                                                                                  receptors, invertebrate 'eyes' as models for study of organization of
   memory
 perception, retinal image-processing, visual perception, retina, visual-
                                                                                  sensation in perception
                                                                                                                                  1963 July p 122-130
                                           1969 May p 104-114 [1143]
                                                                               amphibian, frog, color vision, retina, retinal image-processing, retinal
   cell types
 afterimages, phosphenes, perception, prosthesis for blind, self-
                                                                                  processing of visual sensation
                                                                                                                                 1964 Mar p 110-119
                                                    1970 Feb p 82-87
                                                                               optical illusion, illusion of movement, apparent movement, motion
   illumination of visual centers
                                                    1975 Dec p 70-81
                                                                                  perception
                                                                                                                             1964 Oct p 98-106 [487]
 aging, cataract, eye lens, human eye
 binocular vision, random-dot stereograms, stereogram experiments,
                                                                               pattern recognition, computer graphics, stereoscopic images, texture
                                              1976 Mar p 80-86 [569]
                                                                                  discrimination, depth perception
                                                                                                                              1965 Feb p 38-48 [318]
    visual perception
visual adaptation, color vision, vision, human eye
                                                                                binocular vision, infant development, operant conditioning,
                                               1962 May p 62-72 [465]
                                                                                  developmental psychology, information processing, space, size,
visual attention, vision, eye movement, saccades, fovea, human eye, visual
                                                                                  shape perception in human infants
                                                                                                                              1966 Dec p 80-92 [502]
    fixation, experiments with eye-marker camera
                                                                                vision, light, image processing, imagery, eye and brain in visual
                                               1968 Aug p 88-95 [516]
                                                                                  perception
                                                                                                                           1968 Sept p 204-214 [519]
visual cells, rod cells, cone cells, autoradiography, protein synthesis,
                                                                                optical illusion, size constancy, distortion, pictures as objects, illusions
                                                     1970 Oct p 80-91
    renewal mechanisms in retinal cells
                                                                                  arise from normally useful mechanisms
                                                                                                                             1968 Nov p 66-76 [517]
'visual cliff', depth perception, infant, comparative psychology, visual
                                                                                perception, vision, retinal image-processing, retina, visual-cell types
                                                     1960 Apr p 64-71
                                                                                                                          1969 May p 104-114 [1143]
    perception, genesis of depth perception
visual communication, information theory, painting, sculpture,
                                                                                eye movement, pattern recognition, scan-path recordings, serial-
    architecture, communication, trademarks, language, visual stimulus,
                                                                                  recognition hypothesis
                                                                                                                              1971 June p 34-43 [537]
                                                                                depth reversal, Necker cube, optical illusion, reversing figures
    visual signals
                                               1972 Sept p 82-96 [548]
visual cortex, visual perception, visual scanning, retina, how we see
                                                                                                                              1971 Dec p 62-71 [540]
                                                   1960 June p 121-129
                                                                                contour perception, contrast perception, Mach bands, neuronal
    straight lines
  human eye, optical illusion, vision, sensory perception, 'after effects',
                                                                                  response, optical illusion, Craik-O'Brien effect
     'cortical satiation'
                                                      1962 Jan p 44-49
                                                                                                                             1972 June p 90-101 [543]
   eye, retina, optic nerve, vision, organization of sight into vision
                                                                                bilingualism, dyslexia, eye movement, grammatical relations, language,
                                               1963 Nov p 54-62 [168]
                                                                                  reading, perception of words
                                                                                                                              1972 July p 84-91 [545]
  binocular vision, depth perception, eye, neurophysiology, optic chiasm,
                                                                                cultural differences, split-style art, cultural context of perception,
                                              1972 Aug p 84-95 [1255]
                                                                                  Hudson test
                                                                                                                             1972 Nov p 82-88 [551]
   brain circuitry, embryonic development, nerve cells, neuronal
                                                                                brain circuitry, mammalian brain, nerve signals, sensory systems,
     specificity, Xenopus laevis
                                               1973 Feb p 26-35 [1265]
                                                                                  stimulus localization, superior colliculus in integration at brain
   albinism, gene mutation, Siamese cat, white mink, white tiger, cross-
                                                                                  function
                                                                                                                              1972 Dec p 72-82 [553]
     eyed trait
                                              1974 May p 44-54 [1294]
                                                                                brain hemispheres, cerebral dominance, left-hemisphere functions,
   brain circuitry, eye movement, neurophysiology, pons, visual
                                                                                  music perception, right-hemisphere functions, auditory perception
     processing, visual cells in pons
                                                     1976 Nov p 90-98
                                                                                                                             1973 Mar p 70-78 [554]
   cat response to parallax
                                                                                information theory, computer graphics, 'block portraits', computer
                                                         1968 Feb p 52
 visual discrimination, color vision, learning, conditioned behavior,
                                                                                  enhancement, pattern recognition, recognition of faces
     behavioral psychology, Skinner box, pigeons conditioned to respond
                                                                                                                                   1973 Nov p 70-82
     to discrete wavelengths of light
                                                1958 Jan p 77-82 [403]
                                                                                disoriented figures, form perception, retinal orientation
 visual fixation, vision, eye movement, saccades, visual attention, fovea,
                                                                                                                              1974 Jan p 78-85 [557]
      human eye, experiments with eye-marker camera
                                                                                animal behavior, escape response, neurophysiology, toad, visually
                                                1968 Aug p 88-95 [516]
                                                                                  guided behavior
                                                                                                                            1974 Mar p 34-42 [1293]
  visual illusion, see optical illusion
                                                                                color fusion, color scission, perceptual transparency, physical
  visual meniory, image processing, memory, perception, linguistic material,
                                                                                  transparency, optical illusion, transparency
      remembering what is seen
                                              1970 May p 104-112 [528]
                                                                                                                              1974 Apr p 90-98 [559]
  visual perception, 'Ames room', distance perception, motion perception,
                                                                                art, Escher's prints, optical illusion, perception of pictures, psychology
      optical illusion, size perception, illusions as clues to organization of
                                                                                                                             1974 July p 90-104 [560]
      perception
                                                      1951 Aug p 50-55
                                                                                contrast perception, spatial frequency, visual thresholds
    nerve regeneration, vision, learning, embryonic development, inborn
                                                                                                                          1974 Nov p 106-114 [1308]
      'hard wiring' of nerve circuitry
                                               1956 May p 48-52 [1090]
                                                                                pattern recognition, figure-ground perception, texture discrimination,
    horseshoe crab, vision, Limulus, ommatidia, optic nerve, horseshoe
                                                                                   perceptual limitations
                                                                                                                              1975 Apr p 34-43 [563]
       crab as laboratory animal
                                                    1956 Dec p 113-122
                                                                                 eye, motion perception
    kinesthetic memory, spatial orientation, neuropsychology, perception
                                                                                                                              1975 June p 76-88 [564]
                                                                                binocular vision, random-dot stereograms, stereogram experiments,
       of the upright
                                                 1959 Feb p 50-56 [410]
                                                                                                                             1976 Mar p 80-86 [569]
                                                                                contour perception, optical illusion
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1976 Apr p 48-52 [570]

interferon, virus interference, broad-spectrum natural anti-v	viral agent	Carcinogenesis canaca enidenia.	
1961 May n	. 51 57 f0m	carcinogenesis, cancer epidemiology, enviror immune response, gene mutation, cancer p	mental carcinogens,
adenoviruses, X-ray diffraction, poliomyclitis virus, polyom herpes virus, influenza virus, vaccinia virus, tobacco mosa	ia virus,		1975 Nov. p. 64-78 [1330]
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interferon, virus interference, nucleic acid, infection, anti-vir	111. p. 40–30 ral agent	antigen variation, disease, medical history, in	fluenza virus, encephalitis,
found to act against foreign nucleic acid 1963 Oct p	A6 50 11661	pandemics, animal vectors, Hong Kong flu	
bacteria, files, epidemiology, maggot, dysentery, disease vect	tor	carcinogenesis, integrated DNA	977 Dec. p. 88-106 [1375] 1968 Nov. p. 56
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V!	l Oct. p. 82 1g. p. 28–34	virus interference, interferon, virology, broad-sp	ectrum natural anti-viral
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1949 No.	ov. p. 50-53	interferon, virology, nucleic acid, infection, an act against foreign nucleic acid	iti-viral agent found to 1963 Oct. p. 46-50 [166]
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aster yellow, leafhopper, virus infective to plant and insect	ot. p. 62–68	synthesis, RNA, virus structure	1975 May p. 24-31
1953 Jun	ne p. 78-86	virus π X 174, DNA synthesis, cell-free system, I activated nucleotides, first test-tube synthesis.	INA polymerase,
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smallest free-living cells 1962 Mar. p. 117-leukemia, leukocyte, cancer, chemotherapy, ionizing radiation	126 [1005]	core out 19	66 Dec. p. 32-39 [1058]
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	pt. p. 108 v	viscometer, molecular weight determination, polym	ers, light scattering,
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'retinex' theory, visual solcanic activity, Andes, earthquake distribution, mountain formation, perception, 'color Mondrian' experiment 1973 Aug p 60-69 [910] plate tectonics, seismic waves 1977 Dec p 108-128 [1392] volcanic eruption, Krakatoa, plant succession, ecology visual processing, brain circuitry, eye movement, neurophysiology, pons, 1949 Sept p 52-54 visual cortex, visual cells in pons 1976 Nov p 90-98 diamond, plumes, Earth mantle, kimberlite pipes, genesis of kimberlite visual scanning, visual perception, retina, visual cortex, how we see 1978 Apr p 120-132 [931] straight lines 1960 June p 121-129 volcanic rocks, magnetic field, paleomagnetism, geomagnetic reversals, memory, visual search, information processing, reading, pattern sea-floor spreading, reversals of Earth's magnetic field recognition 1967 Feb p 44-54 1964 June p 94-102 [486] eye movement, feedback, visual tracking, human eye, control volcanic sediments, Eocene epoch, Yellowstone National Park, petified 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46-57 [920] vital statistics, abortion, population, marriage rate, death rate, birth rate, Volta, battery, electrochemistry, electric power, Galvani, Volta's menarche, infant mortality, 1538-1812, parish registers, York, 1965 Jan p 82-91 1970 Jan p 105-112 contributions, biography England 'voltage clamp' technique, giant axon, squid, nerve impulse, sodium chronic illness, morbidity, mortality rates, medical care, life 1958 Dec p 83-90 pump, nerve cells expectancy, infectious disease, degenerative diseases, causes of death voltaic pile, animal electricity, Galvani, a major discovery in physics as 1973 Sept p 76-84 1950 Feb p 40-43 vitamin A, vision, visual pigments, opsin, rhodopsin, isomerism voluntary hospitals, medical economics, medical care, public funds 1967 June p 64-76 [1075] municipal hospitals, proprietary hospitals, metropolitan medical vitamin A deficiency, electroretinography, night blindness, opsin, 1965 Jan p 19-27 economics in New York City rhodopsin, bright-light 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	963 Jan p 128–136	enzyme hypothesis	1956 Dec p 126–136
wheeled vehicles, transportation, oxen, carts, wagons,	ranscaucasus,	chelation, hemochromatosis, lead poisoning, pha	
Mesopotamia, origin of wheeled transport 5,000 y	1968 July p 82~90	action, metal poisoning, heavy metal poisonin	
phyloge heath, and a reason makes and as heaten		salicylates, aspirin, cancer therapy, chemother	
whirling beetle, surface tension, water-strider, backsw springtail, aquatic insect, insects of the water surf	minuer, conogy,	exploitation of chelates	1966 May p 40-50
	r p 134-142 [1387]	ceruloplasmin, hemocyanin, oxygen transport, e	
whiskers, crystal structure, metals, fiber-reinforced, di		deficiency, cytochrome oxidase, copper bioche	
composite materials, two-phase materials	1965 Feb p 28-37	denticately, cytocaromic oxidase, copper blocat	1968 May p 102–114
alloys, eutectics, crystal structure, metallurgy, contr		wilt disease, alfalfa caterpillar, ecology, insecticide,	
controlled-cooling magnets	1967 Feb p 86-92	pest, predation	1954 June p 38–42
composite materials, materials technology, fiber gla		antibiotics, plant disease, rot, blight, smut, mold	
materials, fiber-reinforced composites, matrix, et	itectics		1955 June p 82-91
10	967 Sept. p 160-176	Winchester, Roman Britain, urban archeology	1974 May p 32–43
'whistlers', Earth magnetic field, lightning, radio, ione	osphere, radio	wind, Earth, ocean circulation, gyres, upwelling, th	
echoes of lightning	1956 Jan p 34-37	oceans	1955 Sept p 96-104
Antarctica, Earth magnetic field, upper atmosphere	e, solar wind, autora,	meteorology, atmospheric circulation, cyclone, a	nticyclones, source of
atmosphere-magnetic field-solar wind interaction	n	prevailing winds	056 Dec p 40-45 [841]
1962	Sept p 74-83 [858]	meteorology, cloud, lee waves, soaring, glider, es	thetic exploitation of
acoustical analogue of geomagnetic 'whistler'	1971 Sept p 84	lee waves	1961 Mar p 124-134
whistling, language, Canary Islands, nonverbal comm		weather, thunderstorms, jet stream, squall lines,	low-altitude jet
phonology, the whistled language of La Gomera		streams	1961 Aug. p 120–131
	957 Apr p 111-118	atmosphere, ocean circulation, climate, Coriolis	
white cells, see lymphocytes			1969 Sept. p 76-86
white dwarfs, dwarf stars, degenerate gas, gravitation		eddies, negative viscosity, turbulence, nonumfor	
stars, 'dying' stars pulsar, neutron stars, gravitational collapse, angula	1959 Jan. p 46–53	systems, viscosity solar radiation, energy cycle, biosphere, albedo,	1970 July p 72–80
'lighthouse' model proposed	1968 Oct p 25-35	circulation, climate, ocean circulation, terresti	atmospheric
gravitational collapse, neutron stars, pulsar, stellar			
stars, ultradense matter	1971 Feb p 24–31	wind bracing, skyscrapers, construction technology	0 Sept p 54–63 [1189]
black hole, gravitational waves, neutron stars, puls	ar, relativity theory.	cantilever, truss bridge, steel frame construction	on curtain wall
Red Giant stars, rotational energy	1972 May p 38-46	was a state of the state of	1974 Feb p 92–105
radio pulses	1968 Apr p. 42	wind effect, Coriolis effect, ocean circulation, curre	ents laboratory
white-light reconstruction, holography, laser, microsc	copy, color	analogues 197	0 Jan n 114-121 (390)
holography	1968 Feb p 40-48	wind erosion, dust storms, dry land farming. Great	Plains, marginal
white mink, albinism, gene mutation, Siamese cat, vi		farmlands, agricultural technology	1954 July n 2529
tiger, cross-eyed trait 1974	May p 44-54 [1294]	Mars, Martian atmosphere, dust storms, dry ice	fogs, Mariner voyages
white oak, forest ecosystem, X-ray, gamma radiation	, atomic bomb test.		1977 July n 34_43
weeds, environmental pollution, ecological effective radiation		wind instruments, physics, harmony, string instrum	ients, piano, voice
white pine, North American forests, Royal Navy, Ki	3 June p 40-49 [159]	musical scale, acoustics, agreeable melodies ar	nd physical laws
American Revolution, colonial building			1948 July p 32-41
white tiger, albinism, gene mutation, Siamese cat, vi	1948 June p 48-53	wind power, as standby	1949 Aug. p 24
mink, cross eyed trait 1973	May n. 44-54 (1294)	100 kW windmills	1054 Ech - 49
whitefish, lamprey, jawless fish, pest control, Great	Lakes, trout	wind tower, air conditioning, air vent, domed roof,	architecture, cooling
	1055 Apr p 36 41	system, passive cooling systems in Iranian arc	hitecture
whites, intelligence race, IQ, heredity, American Ne	earn heredity	wind tunnel, aerodynamics ances flere.	Feb p 144-154 [705]
population genetics, science policy, social psych	hology, twins,	wind tunnel, aerodynamics insect flight, locust, eff	iciency of locust flight
environment, racial discrimination 1976	0 Oct. p 19-29 [1199]	aerodynamics, supersonic flight, shock waves, m	1956 Mar p 116-124
WHO: World Health Organization	-	high altitude aerodynamics	olecular beam, ultra-
			1958 Jan p 36-42

water supply, economic development, industrialization, trrigation,	Weather migrocons
desamation, water resource management technology and account	weather, microscisms, seismology, earthquakes 1949 Feb p 42-45
or water in economic development 1062 com = 02 10	o , , , , , , , , , , , , , , , , , , ,
tutilet of Eupainus, Samos, Greek civilization, Classical archeology,	ice-floc islands. Arctic Ocean currents
reat of Classical engineering 1964 June p. 104-115	climate, solar wind, ionosphere, meteorology, coronametry, Earth's
agricultural irrigation, canals, hydro-engineering, pipelines, Jordan	Wealher and solar wind 1057 Apr - 120 140 10401
Valley Plan, Israel, Jordan 1965 Mar p 23–31	thunderstorms, wind, jet stream, squall lines, low-altitude jet streams
air pollution, cittes, sewage disposal, smog, water pollution, taxation,	
Los Angeles, New York, metabolism of cittes 1965 Sept p 178–190	atmospheric circulation, meteorology, upper atmosphere, solar
bacterial toxin, cholera, disease, medical care, sanitation, epidemiology	radiation, balloon and rocket observations 1964 Mar p 62-74
'A Water Policy for the American People' 1971 Aug p 15-21	mean annual temperature drop 1961 Mar p 81
Water Policy for the American People' 1951 Feb p 32 water table, ground water, artesian well, piezometric surface, water cycle,	
resource management, runoff, ground water in water-resource	weather control, climate, cloud seeding, does control of weather
management 1950 Nov p 14-19 [818]	constitute a climatic hazard? 1950 Apr p 48-52
radio divining rod, depth of water table by radio 1956 May p 59	B,
watershed, forestry, nitrogen fixation, coosystem, resource management,	1202000
runoff, erosion, deforestation, deforestation experiment	hurricane-modification experiments, hurricane-eye disruption 1964 Dec p 27-37
1970 Oct p 92–101 (1202)	cloud seeding, a business 1951 Mar p 29
Watt, steam engine, mine drainage, technology history, pumps, Industrial	weather forecasting, jet stream, long-wave forecasting
Revolution, Newcomen engine, origins of steam engine	1955 Aug p 40-44
1964 Jan p 98-107	weather satellites, Tiros, telemetry, atmospheric circulation, heat
wave acoustics, architectual acoustics, sound waves, auditoriums, sound	budget of Earth, air masses, videocameras, photographic weather
interference, sound diffraction, acoustic reverberation, effective	maps 1961 July p 80-94
management of sound in public buildings and dwellings	satellite, weather satellites, meteorology, Tiros, Essa, Applications
1963 Nov p 78–92	Technology Satellites, Nimbus 1969 Jan p 32-68
wave-front reconstruction, holography, laser, interferometry, lensless laser photography 1965 June p. 24-35 [300]	long-range 1969 Nov p 62
photography 1965 June p 24-35 [300] wave guide, fiber optics, light reflection, image transmission, physics of	weather observation, radar, cloud structures 1953 July p 34-38
light conduction 1960 Nov p 72–81	weather satellites, Tiros, telemetry, atmosphene circulation, heat budget
wave motion, thun-film optical devices, interferometry, fluorescence, light	of Earth, air masses, videocameras, photographic weather maps weather forecasting 1961 July p 80-94
waves, monomolecular films, fatty acids 1970 Mar p 108–119	satellite, weather forecasting, meteorology, Tiros, Essa, Applications
wave-particle duality, electron, diffraction, interference fringes, electron	Technology Satellites, Numbus 1969 Jan p 32-00
diffraction, Davisson-Germer experiment 1948 May p 50-53	weather ships, decommissioning 1954 Apr p 46
matter, energy levels, electromagnetic force, nuclear forces, gravitation,	weathering, sandstone, sand dune, granite, turbidity currents,
field theory, fundamental research, quantum jumps, corpuscular	stratigraphy sand, origin and history from shape of grain
streams, what is matter? 1953 Sept p 52-57 [241]	1960 Apr p 94-110
philosophy of science, uncertainty principle 1958 Jan p 51-57 [212]	architecture, sculpture, erosion, marble, limestone, atmosphene pollution, preservation of stone 1978 June p 126-136 [3012]
gravitation, relativity theory, quantum mechanics, space-time	pollution, preservation of stone 1978 June p 126–130 [3012]
continuum, uncertainty principle, PAM Dirac view of physics 1963 May p 45-53	weaver ants, ants, insect behavior, pheromones, social insect 1977 Dec p 146-154 [1373]
diffraction, light, optics, interference, electromagnetic waves, photon	mond control in cost barburges, agricultural technology leaf-eating
emission, introduction to single topic issue on light	beetle. Klamath weed, living herbicides 1957 July p 30-57
1968 Sept p 50-59	agrantural technology herbigide mulch tillage without plow
wave propagation, heat, diffusion, solid state physics, thermal waves,	1977 Jan b 20-33 [1547]
second sound, cryogenics, phonon, helium, thermal waves in solid	enzyme weed control 1959 Mar p 69
helium 1970 May p 92–101	weeds, forest ecosystem, X-ray, gamma radiation, white oak, atomic bomb test, environmental pollution, ecological effects of high energy
waveguides, microwaves, optical properties, Maxwell's equations,	radiation 1963 June p 40-49 [159]
traveling-wave tube, klystron, magnetron, communication, radar 1952 Aug p 43-51	Wasser's himsthesis, continental drift, contracting-Earth theory, science
'weak' force, elementary particles, parity, symmetry, quantum, particle	history. Pangaea, plate tectorics 1973 Feb p 65
interaction, right and left-handed particles breakdown of parity	weight-strength ratio, bird flight, aerodynamics, bone structure,
1957 Apr p 45~53 [231]	respiratory air sacs, birds as flying machines 1955 Mar p 60-70
antimatter, symmetry, elementary particles, parity, particle interaction,	weightlessness, space medicine acceleration, g-forces, semicircular canals, black-out 1951 Jan p 16-19
recognition of 'fourth force' 1959 Mar p 72-84 [247]	canals, black-out acceleration, human physiology, manned space flight, space medicine,
particle interaction, muon, electron, high-energy physics, properties of	1902 FCD V 00 7
massive negative particle 1961 July p 46-55 [275] beta decay, neutrino, particle accelerator, muon neutrino, a particle	manual hallistic flight 1961 June p 80
interaction, experiment demonstrating existence of muon neutrino	woughts and measures new standards 1900 Mar p 3-
1963 Mar p 60-70 [324]	and the large optical communication, holography, surveying, light, lister
particle interaction, high-energy physics, gauge theory, field theory,	technology 1900 Sept p 190
electromagnetic force, 'strong' force 1974 July p 30–39	welfare reform, income maintenance, negative income-tax experiment,
electromagnetic force, particle interaction, gauge theory, neutrino	work attitudes, work incentives 1972 Oct p 19-23 West Indies, New World archeology, Hispaniola, stone artifacts, island
interactions, neutral-weak-current interactions 1974 Dec p 108-119	charge can routes seafaring hinters from Central Afficia
A A A A A A A A A A A A A A A A A A A	1969 NOV P 42-32 [03-1]
quest for unified theory of basic forces 1978 Feb p 126–143 [397]	Westinghouse Science Writing Awards, AAAS 1948 Oct p 25
quest for unified theory of basic report 1976 Jan p 56	wetlands, climate, marshland, swamp, ecology, eutrophication, natural
Jonante neat hos archeology, Organic lenes, Danish metery	rellution ocean runeral resources, sea water, ocean floor, physical
1 and a section	resources of the ocean 1969 Sept p 160-176 [005]
wear, materials technology, adhesive wear, abrasive wear, corrosion,	whole dwing physiology, breathing 1949 July p 52-55
faugue wear, surfaces in sliding contact 1962 Feb p 127-136 faugue wear, surfaces in sliding contact 1962 Feb p 127-136 faugue wear, Beilby layer, ferrograph analysis, friction, lubrication, machine wear, Beilby layer, ferrograph analysis, friction, lubrication, machine wear, 1974 May p 88-97	diagram
	gray whate, annual magazine
	marine biology, animal sounds in the sea 1956 Apr p 93-102
bearing, lubrication, friction, journal bearing exoelectrons, Geiger counter, metal fatigue, metal-surface defects 1977 Jan p 74-82 [350]	Harrie orace.
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allosteric enzymes, myoglobin, hemoglobin, amino-acid sequence,	mosquitoes, sexual behavior, reproduction, eggs, in vac, sedes stegypti
contour maps, folding of four chains, alpha chain, beta chain 1964 Nov p 64-76 [196]	mosquito bite, insect behavior, malaria, feeding behavior, feeding
Earth core, iron-nickel alloy, high-pressure technology,	behavior of mosquitoes 1978 June p 138-148 [1392]
crystallography, core studies by analogy, diffraction patterns of iron	extirpate Aedes Aegypti 1955 Mar p 53
alloys 1965 June p 100–108	Aedes aegypti mosquito threat 1956 Dec p 60
boron, crystal structure, crystallography 1966 July p 96-107	Yellowstone National Park, Eocene epoch, petrified wood, erosion,
Bragg's law, X-ray crystallography, atomic structure, crystal structure,	volcanic sediments, petrified forests of Yellowstone
Fourier analysis 1968 July p 58-70 [325]	Yerkes Laboratories, primate biology, chimpanzee 1955 Feb p 67–75
crystal structure, lithiasis, kidney calculi, bladder stones, gallstones,	Yerkes Laboratories, primate biology, chimpanzee 1955 Feb p 67-75 yoga, blood pressure, human physiology, autonomic nervous system,
urmary calculi 1968 Dec p 104-111	transcendental meditation, Zen Buddhism, physiology of meditation
crystal structure, metals, liquid state, physics of metals in the liquid state 1969 July p 72-82	1972 Feb p 84-90 [1242]
keratin, protein structure, alpha keratin, feather keratin	Yogi, feat of endurance 1951 Mar p 30 Yumbri, cultural anthropology, racial discrimination, genocide,
1969 Aug p 86-96 [11\$5]	Tasmanians, Yamana, vanishing primitive cultures
Gray discovery, electromagnetism, electron discovery, induction coil, radio discovery, science history 1971 May p 80-87	1957 May p 39-45
radio discovery, science history 1971 May p 80-87 foray lithography, electromagnetic spectrum, electron manipulation,	yurt, building construction, architecture, primitive architecture, chimate,
electron storage rings, spectroscopy, synchrotron radiation, X-ray	igloo, teepee, tent, sod hut, adobe house, hogan, stilt house
probe, uses of synchrotron radiation 1977 June p 32-41 [365]	1960 Dec p 134-144
K-ray novae, transient flare-ups 1976 Feb p 54	
K-ray photography, electron beam, cold cathode, current density, field	garage .
emission 1964 Jan p 108–118	Z
K-ray pictures, by xerography 1956 Mar p 57	
X-ray probe, electromagnetic spectrum, electron manipulation, electron	Zebu cattle, animal husbandry, cattle, dairying, European cattle, selective
storage rings, spectroscopy, synchrotron radiation, X-ray hthography, uses of synchrotron radiation 1977 June p 32-41 [365]	stock breeding 1958 June p 51-59
X-ray sources, binary stars, neutron stars, black hole, pulsar, quasars, X-	Zeeman effect, magnetic field, solar magnetism, sunspots, mapping
ray astronomy 1972 July p 26-37	changes in solar magnetic field 1960 Feb p 52-62
balloon astronomy 1966 Oct p 44	antimatter, Leidenfrost phenomenon, Klein theory, high-energy
X-ray stars, black hole, binary stars, galactic energetics, globular cluster	physics, cosmology, high-energy physics and cosmology
stars, neutron stars, stellar evolution, astronomy satellites, 'bursters'	1967 Apr p 106-114 [311]
1977 Oct p 42-55 [385]	Zeeman splitting, galactic magnetic field measured 1968 Nov p 56
xenon, noble gas bound by hemoglobin 1965 Sept p 84	Zen Buddhism, blood pressure, human physiology, autonomic nervous
xerography, air pollution, corona discharge, electrocoating, fly ash.	system, transcendental meditation, yoga, physiology of meditation 1972 Feb p 84-90 [1242]
electrostatics, photocopying, electrostatic precipitation and seperation 1972 Mar p 46-58	zenith tube, atomic clock, ammonia maser, cesium clock, maser, mercury
Xerxes, Athens, Themistocles, Salamis, Classical archeology, Battle of	mirror, improvements on sidereal time 1957 Feb p 71-82 [225]
Salamus, 480 B C, tablets deciphered 1961 Mar p 111-120	Zeno's paradox, antinomy, paradox, mathematical logic, logic, barber
xylan, algae, mannan, plant cell wall, cellulose, xylan, mannan in place of	paradox, undecidable questions, Godel's proof, Grelling's paradox,
cellulose in marine plant tissue 1968 June p 102–108 [1110]	Epimemdes' paradox, paradox and foundations of logic
xylem, phloem, plants, radioautography, sap circulation, transport of	1962 Apr. p 84-96
nutrients in plant tissue 1959 Feb p 44-49 [53]	zeolites, molecular sieves, ion exchange, adsorption, separation of similar molecules 1959 Jan p. 85-94
apluds, sap circulation, phloem, trees, use of apluds to measure forces in sap flow 1963 Mar p 132-142 [154]	molecules 1959 Jan p 85-94 zero-point motion, crystal structure, helium, solid state physics, quantum
mode flow	solid, solid helium, physical and theoretical properties
	1967 Aug p 84-95
\mathbf{V}	zero population growth, demographic transition, population growth,
1	world population, birth rate, gross reproduction rate, net
and down and	reproduction rate, extrapolation from world-statistics population
Jacht design, marine engineering, hull design, towing tank tests, sail	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683]
design 1966 Aug p 60-68	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683] demographic transition, economic development, human population.
design 1966 Aug p 60-68 yachting, America's Cup race, yacht design 1974 Dec p 64	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683] demographic transition, economic development, human population, population explosion, introduction to single-topic issue on the
design 1966 Aug p 60-68	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683] demographic transition, economic development, human population, population explosion, introduction to single-topic issue on the human population 1974 Sept p 30-39
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design 1966 Aug p 60-68 yachting, America's Cup race, yacht design 1974 Dec p 64 Yamana, cultural anthropology, racial discrimination, genocide, Tasmanians, Yumbri, vanishing primutive cultures 1957 May p 39-45 yarn, aruficial fibers, natural fibers, spinning technology, textile fibers	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683] demographic transition, economic development, human population, population explosion, introduction to single-topic issue on the human population 1974 Sept p 30-39 developed countries, demographic transition, human population, birth control 1974 Sept p 108-120 zero-sum game, games theory, human conflict, probability, military
design 1966 Aug p 60-68 yachting, America's Cup race, yacht design 1974 Dec p 64 Yamana, cultural anthropology, racial discrimination, genocide, Tasmanians, Yumbri, vanishing primutive cultures 1957 May p 39-45 yarn, artificial fibers, natural fibers, spinning technology, textile fibers 1972 Dec p 46-56	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683] demographic transition, economic development, human population, population explosion, introduction to single-topic issue on the human population 1974 Sept p 30-39 developed countries, demographic transition, human population, birth control 1974 Sept p 108-120 zero-sum game, games theory, human conflict, probability, military strategy, use and misuse of game theory 1962 Dec. p 108-118
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design 1966 Aug p 60-68 yachting, America's Cup race, yacht design 1974 Dec p 64 Yamana, cultural anthropology, racial discrimination, genocide, Tasmanians, Yumbri, vanishing primitive cultures 1957 May p 39-45 yarn, artificial fibers, natural fibers, spinning technology, textile fibers 1972 Dec p 46-56 year, calendar, solar system, planetary motion, time, heliocentric theory, astronomy, Copernicus, astronomy, Copernicus, length of calendar year 1966 Oct. p 88-98	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683] demographic transition, economic development, human population, population explosion, introduction to single-topic issue on the human population 1974 Sept p 30-39 developed countries, demographic transition, human population, birth control 1974 Sept p 108-120 zero-sum game, games theory, human conflict, probability, military strategy, use and misuse of game theory 1962 Dec p 108-118 riggurat, Elamite culture, religion, Tower of Babel, Biblical archeology, 1000 B C, Iran 1961 Jan p 68-76
design 1966 Aug p 60-68 yachting, America's Cup race, yacht design 1974 Dec p 64 Yamana, cultural anthropology, racial discrimination, genocide, Tasmanians, Yumbri, vanishing primitive cultures 1957 May p 39-45 yarn, artificial fibers, natural fibers, spinning technology, textile fibers 1972 Dec p 46-56 year, calendar, solar system, planetary motion, time, heliocentric theory, astronomy, Copernicus, astronomy, Copernicus, length of calendar year Year of the Quiet Sun, Sun succeeds 1 6 4 1961 May p 75	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683] demographic transition, economic development, human population, population explosion, introduction to single-topic issue on the human population 1974 Sept p 30-39 developed countries, demographic transition, human population, birth control 1974 Sept p 108-120 zero-sum game, games theory, human conflict, probability, military strategy, use and misuse of game theory 1962 Dec p 108-118 riggurat, Elamite culture, religion, Tower of Babel, Biblical archeology, 1000 B C, Iran 1961 Jan p 68-76 finc, trace elements, iron, manganese, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25
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design 1966 Aug p 60-68 yachting, America's Cup race, yacht design 1974 Dec p 64 Yamana, cultural anthropology, racial discrimination, genocide, Tasmanians, Yumbri, vanishing primitive cultures 1957 May p 39-45 yarn, artificial fibers, natural fibers, spinning technology, textile fibers 1972 Dec p 46-56 year, calendar, solar system, planetary motion, time, heliocentric theory, astronomy, Copernicus, astronomy, Copernicus, length of calendar year 1966 Oct p 88-98 Year of the Quiet Sun, Sun succeeds 1 6 4 1961 May p 75 yeast, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, Penicillium notatum, molds and men 1952 Jan p 28-32 [115]	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683] demographic transition, economic development, human population, population explosion, introduction to single-topic issue on the human population 1974 Sept p 30-39 developed countries, demographic transition, human population, birth control 1974 Sept p 108-120 zero-sum game, games theory, human conflict, probability, military strategy, use and misuse of game theory 1962 Dec p 108-118 riggurat, Elamite culture, religion, Tower of Babel, Biblical archeology, 1000 B C, Iran 1961 Jan p 68-76 inc, trace elements, iron, manganese, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 indoor lighting 1957 Aug p 40-47 12211
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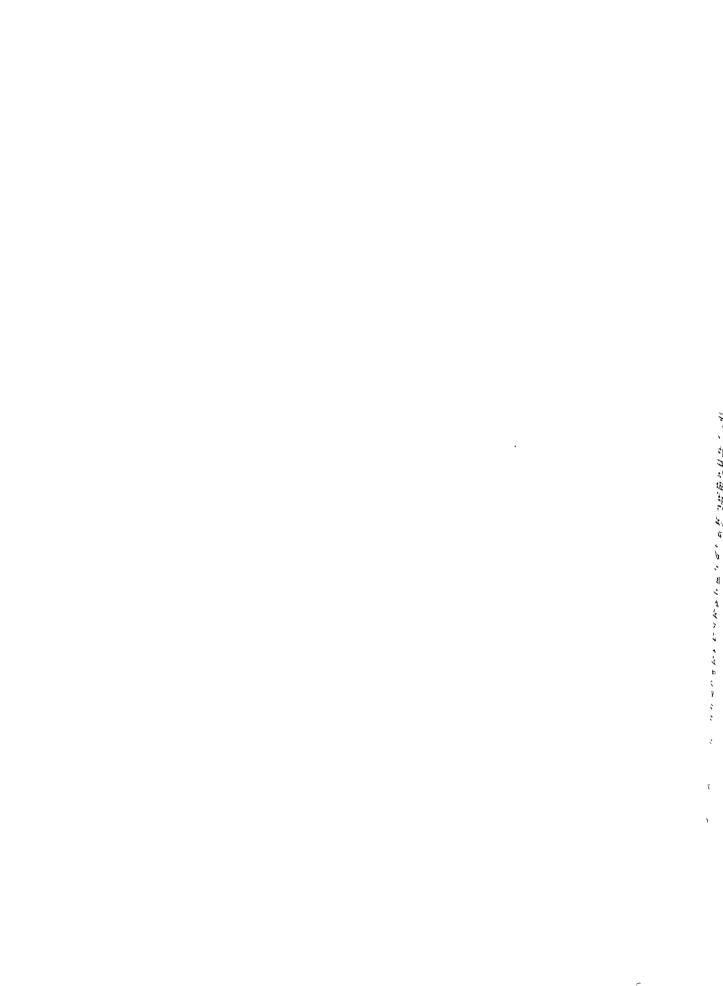
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